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6 THE STATE OF PIPELINE SAFETY AND

7 SECURITY IN AMERICA

8 WEDNESDAY, MAY 1, 2019

9 House of Representatives

10 Subcommittee on Energy

11 Committee on Energy and Commerce

12 Washington, D.C.

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16 The subcommittee met, pursuant to call, at 10:00 a.m., in

17 Room 2123, Rayburn House Office Building, Hon. Bobby L. Rush

18 [chairman of the subcommittee] presiding.

19 Members present: Representatives Rush, Peters, Doyle,

20 McNerney, Loeb sack, Butterfield, Welch, Schrader, Kennedy,

21 Veasey, Kuster, Kelly, Barragan, O'Halleran, Blunt Rochester,

22 Pallone (ex officio), Upton, Latta, Rodgers, Olson, McKinley,

23 Griffith, Johnson, Bucshon, Flores, Hudson, Walberg, Duncan, and

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24 Walden (ex officio).

25           Staff present: Omar Guzman-Toro, Policy Analyst; Zach Kahan,  
26 Outreach and Member Service Coordinator; Rick Kessler, Senior  
27 Advisor and Staff Directory, Energy and Environment; John  
28 Marshall, Policy Coordinator; Lisa Olson, FERC Detailee; Tuley  
29 Wright, Energy and Environment Policy Advisor; Mike Bloomquist,  
30 Minority Staff Director; Jordan Davis, Minority Senior Advisor;  
31 Peter Kielty, Minority General Counsel; Mary Martin, Minority  
32 Chief Counsel, Energy and Environment and Climate Change; Brandon  
33 Mooney, Minority Deputy Chief Counsel, Energy; Brannon Rains,  
34 Minority Staff Assistant; and Peter Spencer, Minority Senior  
35 Professional Staff Member, Environment and Climate Change.

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36 Mr. Rush. [Presiding] The subcommittee will now come to  
37 order.

38 The chair now recognizes himself for 5 minutes for the  
39 purposes of an opening statement.

40 I want to thank all the witnesses who are attending this  
41 very important hearing today on pipeline safety and security.

42 And I want to welcome all of our distinguished panelists that  
43 will be appearing before us today on two separate panels.

44 I also want to express my disappointment and my deep-seated  
45 concern that we will not be hearing from one of the agencies  
46 responsible for oversight of pipeline safety, TSA, who actually  
47 presides over some of the most disturbing outstanding issues that  
48 need to be addressed by the members of this subcommittee.

49 While we did invite TSA to appear before us today, so that  
50 the members of this subcommittee could address many of the issues  
51 that were spelled out in a December 2018 GAO report, TSA declined  
52 to send a witness. And frankly, I find it to be unacceptable  
53 and it will be addressed as we move forward. TSA needs to answer  
54 the questions that we have, that members of this subcommittee  
55 have and want to get answers to.

56 In the meantime, I look forward to engaging with the  
57 panelists that are present with us today, examining the state  
58 of pipeline safety and security as it currently stands before

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59 the nation.

60 I have the pleasure of representing portions of Will County,  
61 Illinois, as part of the First Congressional District of Illinois.

62 And Will County has the dubious distinction of accounting for  
63 8 percent of all the pipelines in my State, and officials there  
64 were able to provide my office with critical insight into how  
65 pipeline safety and security protocols play out on the local  
66 level.

67 As we all know, local communities are always the ones most  
68 directly impacted when something goes wrong with America's  
69 pipeline, as we have, unfortunately, witnessed far too often in  
70 areas extending from the Merrimack Valley in Massachusetts to  
71 Aliso Canyon and San Bruno in California.

72 From county first responders, who are usually the initial  
73 actors on the scene, to local emergency management agencies, who  
74 are required to participate and carry out emergency preparedness  
75 exercises to plan and prepare for disasters, local agencies play  
76 a huge role in helping to mitigate disasters, and they are not  
77 always provided with the adequate funding or resources to do the  
78 job which we require of them.

79 Many times when private companies are mandated by federal  
80 law to comply with consent decrees, they pull in local resources,  
81 such as the case with a recent spill in Romeoville, Illinois.

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82 Will County officials were required to contribute many hours  
83 of manpower and staff in order to help Enbridge meet its  
84 court-ordered decree, but they were not compensated any money  
85 for this huge responsibility that they had to accept.

86 While there is the Hazardous Materials Emergency  
87 Preparedness, HMEP, Grant Program, it appears that there are some  
88 severe limitations upon this program. The HMEP or TAG program  
89 operates with limited and unpredictable levels of funding and  
90 has burdensome restrictions on how that money may be utilized.

91 I look forward to today's hearing and to a robust discussion  
92 on both sides of the issue of this outstanding priority issue  
93 that is before us.

94 And with that, I yield back the balance of my time. And  
95 now, I recognize my friend and colleague, my friend from Michigan,  
96 Ranking Member Upton.

97 Mr. Upton. Thank you, Mr. Chairman, and also my friend for  
98 sure.

99 This is an important hearing as we begin our work to  
100 reauthorize the nation's pipeline safety laws. I want to thank  
101 you for making this a bipartisan effort, for working with us to  
102 select the witnesses, and prepare for the hearing. We have a  
103 great track record when we work together from the very start,  
104 especially when it involves public safety.

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105           Throughout my time in Congress, I have especially  
106 prioritized pipeline safety. It is personal, as we had to deal  
107 with a bad pipeline accident in my home State. I recall the 2010  
108 oil spill in the Kalamazoo River, not too far from my district,  
109 which led to the passage of the Upton-Dingell pipeline safety  
110 bill in 2012. And in response to the Kalamazoo spill  
111 specifically, we cut down on the incident reporting time, 24 hours  
112 now, and we upped the financial penalty for violations.

113           In 2016, we came together again to pass another bipartisan  
114 pipeline safety bill, which is now set to expire in October.  
115 I am proud of the work that we accomplished with that bill,  
116 particularly the language that I was able to include requiring  
117 mandatory annual inspections for certain pipeline crossings, such  
118 as the Enbridge Line 5, which crosses the Straits of Mackinac  
119 at a depth of more than 250 feet below the surface of the water,  
120 that was built some 60 years ago.

121           Mr. Chairman, as we turn to this upcoming reauthorization,  
122 I am grateful for the commitment from you to adopt the same  
123 bipartisan formula that worked so well the last two times as we  
124 did pipeline safety.

125           I am confident that today's hearing will provide us with  
126 a good start. We have two panels offering a diverse range of  
127 views, including the Administrator of PHMSA, the Commissioner

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128 from the Ohio Public Utility Commission, and a representative  
129 from the GAO, representatives of oil and gas pipeline operators,  
130 and pipeline safety advocates. As one can tell from the witness  
131 lineup, an effective pipeline safety and security program  
132 requires communication and cooperation among a wide array of  
133 stakeholders.

134 Today's hearing will also allow members to examine GAO's  
135 recommendations to address significant weaknesses in TSA's  
136 Pipeline Security Program management. I will confess that I was  
137 most disappointed to learn that, while TSA was invited to  
138 participate in today's hearing, they officially declined to  
139 appear. And I guess you could say, like the Alamo, we are going  
140 to remember that.

141 We know from the committee's oversight that TSA staffing  
142 issues are a major limitation. TSA has some 50,000 employees.  
143 Only a handful -- actually, it is a handful plus one ~~.7~~ ~~S~~ ~~six~~ --  
144 are assigned to pipeline safety. That is not very good.

145 Strengthening cybersecurity for pipelines is an issue that  
146 I care deeply about, and I believe that Congress does need to  
147 act in both the House and the Senate. I have introduced a bill,  
148 H.R. 370, the Pipeline and LNG Facilities Cybersecurity  
149 Preparedness Act, that would help address some of the  
150 vulnerabilities outlined in the GAO report. And although my bill

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151 is more focused on DOE's role, as the sector-specific agency for  
152 energy, I am committed to getting it over the finish line, and  
153 I am open-minded about ways to strengthen cybersecurity through  
154 our pipeline safety reauthorization bill. And I know that we  
155 can make it bipartisan.

156 So, at the end of the day, we cannot separate pipeline safety  
157 from pipeline security, and we cannot allow agencies to carry  
158 out a turf war over jurisdiction, especially if they are going  
159 to refuse to come before this important committee.

160 With that, Mr. Chairman, thank you again for holding the  
161 hearing, and I yield back.

162 Mr. Rush. I want to thank the gentleman.

163 The chair now recognizes the chairman of the full committee,  
164 Mr. Pallone, for 5 minutes for his opening statement.

165 The Chairman. Thank you, Mr. Chairman.

166 There are millions of miles of pipeline transporting natural  
167 gas, oil, and other commodities across the country. And when  
168 a pipeline fails, it can be destructive, and even deadly. Late  
169 last year, a failure in Massachusetts' Merrimack Valley caused  
170 one death, 21 injuries, and damaged over 130 homes. In February,  
171 a gas field explosion at a residence in Dallas, Texas, killed  
172 a 12-year-old and injured his family. And these tragic events  
173 underscore the need for a strong federal safety pipeline program.

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174           And I want to welcome Skip Elliott, Administrator of the  
175 Pipeline and Hazardous Materials Safety Administration,  
176 pronounced PHMSA, to the committee. Administrator Elliott, I  
177 wish you success in your effort to manage an agency notorious  
178 for its inability to meet congressionally-mandated deadlines and  
179 carry out its mission in an efficient and effective way. And  
180 certainly, there are dedicated career staff at PHMSA who work  
181 hard to make our pipelines safer, but there are too many  
182 outstanding mandates from the 2011 and 2016 pipeline safety  
183 reauthorizations that PHMSA has failed to finalize, and that is  
184 unacceptable.

185           As part of the 2011 reauthorization, Congress required the  
186 use of automatic or remote-controlled shutoff valves on  
187 newly-constructed transmission pipelines to limit damage when  
188 a rupture occurred. The National Transportation Safety Board  
189 recommended use of this technology 25 years ago, after a pipeline  
190 explosion in my congressional district in Edison, New Jersey.

191           I was in Congress then, and yet, here we are still discussing  
192 the same issue.

193           The 2011 law also required operators to install leak  
194 detection systems on hazardous liquid pipelines, but eight years  
195 later PHMSA still has not finalized the rule. And in what I  
196 consider to be the most important provision of the 2016

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197 reauthorization, Congress gave PHMSA emergency order authority  
198 to address imminent industrywide safety hazards that pose a threat  
199 to life or significant harm to property or the environment. Yet,  
200 PHMSA has failed to implement this, too.

201 And it is not all PHMSA's fault. The prescriptive  
202 cost-benefit analysis required by the '96 reauthorization  
203 hamstrung the agency. If we want PHMSA to finalize more  
204 rulemakings, we must remove or adjust this overly-burdensome  
205 requirement.

206 We also need to restore the mechanisms for citizens to pursue  
207 legal action to compel PHMSA to fulfill its statutory duties.

208 If the federal government can't or will not carry out its mandated  
209 responsibilities, citizens should have the right to take legal  
210 action.

211 In the aftermath of the 2010 San Bruno pipeline explosion  
212 that killed eight people, San Francisco sued the federal  
213 government for having abjectly failed to enforce safety  
214 standards. Unfortunately, the court dismissed that suit because  
215 it found that the law did not permit mandamus-type citizen suits  
216 against the government, and that was never Congress' intent and  
217 it must change.

218 I am also extremely disappointed, as my colleague from  
219 Michigan said, that the Transportation Security Administration

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220 Administrator David Pekoske refused to testify or even send a  
221 witness today. And on a bipartisan basis, we invited TSA to  
222 testify on its pipeline security program, which the Government  
223 Accounting Office has criticized for having significant  
224 weaknesses. I am concerned that TSA lacks the resources,  
225 expertise in energy delivery systems, and, frankly, the  
226 commitment to keep up its obligations under the law. And so,  
227 Fred, I want to thank you for pointing that out, too.

228 There was a serious security breach last week when someone  
229 shot at the Magellan pipeline in Minnesota, causing a release  
230 of over 8,000 gallons of diesel fuel. If TSA can't be bothered  
231 to be here to discuss this security breach and justify its  
232 performance to Congress, then perhaps it is time we look for  
233 another federal agency other than TSA to handle this critical  
234 responsibility.

235 And finally, I would like to thank Carl Weimer for all of  
236 his help over the years to this committee and Congress because  
237 I am told he will soon step down as the Executive Director of  
238 the Pipeline Safety Trust. Twenty years ago next month, the  
239 Olympic Gasoline Pipeline exploded in Bellingham, Washington,  
240 and that killed 18-year-old Liam Wood and two 10-year-olds, Wade  
241 King and Steven Tsiorvas. And I say their names because it is  
242 critical that we not forget these kids. Since then, Carl and

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243 the Trust have taken the outrage of that event and used it to  
244 improve the pipeline safety landscape, to the benefit of all of  
245 us.

246 You know, again, the role of citizens, the role of  
247 individuals in drawing attention to what needs to be done here  
248 is very important, and I certainly want to highlight that.

249 The Pipeline Safety Act reauthorization has typically been  
250 a bipartisan effort, and we look forward to continue working with  
251 colleagues on both sides of the aisle to update and improve this  
252 critical federal program.

253 Thank you, Mr. Chairman.

254 Mr. Rush. I want to thank the gentleman.

255 The chair now recognizes the ranking member of the full  
256 committee, Mr. Walden, for 5 minutes for his opening statement.

257 Mr. Walden. Good morning, Mr. Chairman.

258 Mr. Rush. Good morning.

259 Mr. Walden. Thanks for having this hearing. I think it  
260 is really important that we work together to reauthorize and  
261 modernize the nation's pipeline safety program.

262 This is really an important hearing, and I am pleased that  
263 we are beginning this process on a bipartisan basis, Mr. Chairman,  
264 which is the tradition of the Energy and Commerce Committee on  
265 matters relating to pipeline safety and security.

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266           The federal government, acting through the Pipeline and  
267           Hazardous Materials Safety Administration, known as PHMSA, has  
268           an important responsibility to develop and enforce regulations  
269           for the safe, reliable, and environmentally-sound operation of  
270           the nation's 2.7 million miles of pipelines.

271           Pipelines are among the safest and most efficient ways to  
272           transport critical fuels and feedstocks, such as natural gas and  
273           petroleum, to our homes and businesses. And simply put, the safe  
274           operation of our nation's pipeline and safety system is essential  
275           to help keep prices low for consumers and drive our economy forward  
276           in a positive direction.

277           PHMSA cannot do this important job by itself. It must  
278           coordinate effectively with other federal agencies, such as the  
279           Department of Energy, FERC, and TSA, and especially with the  
280           states. In fact, it is important to recognize that much of the  
281           responsibility for pipeline safety falls on the states. It is  
282           often state pipeline safety workers who are on the front lines  
283           inspecting and enforcing safety requirements. And in many cases,  
284           it is also the states' responsibilities to regulate rates and  
285           ensure the adequate investments are made in pipeline maintenance  
286           and modernization.

287           As Members of Congress, it is our responsibility to ensure  
288           that PHMSA and the states have enough resources and the

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289 appropriate tools to get the job done. With PHMSA's  
290 authorization expiring at the end of this fiscal year, it is time  
291 for us to get our work done.

292 As we turn to reauthorization, I will remain focused on  
293 protecting public safety and consumers. These are not  
294 mutually-exclusive goals, and I am optimistic we can find  
295 bipartisan agreement, as we always have when it comes to pipeline  
296 safety.

297 Mr. Chairman, I hope we can get a commitment to work together  
298 on the drafting process from the very beginning. That would  
299 really be consistent with our practice from the last round of  
300 reauthorization, and I think it would contribute toward a better  
301 quality work product. So, I hope we can do that.

302 There are many areas where I believe we can update and  
303 strengthen the law to drive innovation and lower the barrier of  
304 entry for new technologies. New technologies for pipeline  
305 construction and integrity management can help improve efficiency  
306 and safety at the same time.

307 I also believe we should examine recent pipeline safety  
308 incidents and incorporate lessons learned in our work. We should  
309 also make sure to provide PHMSA with clear directions, recognizing  
310 they already have a backlog of congressional mandates. They are  
311 working on two high-priority rules for both gas and liquid

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312 pipelines.

313 PHMSA must also finish its work on other important safety  
314 rules relating to pipelines valves and rupture detection,  
315 integrity management, class location, and public education and  
316 awareness. I believe PHMSA is on the right track, and I look  
317 forward to the agency completing this important work.

318 At this point, I will close by thanking our witnesses for  
319 appearing before us today. We are going to hear a range of  
320 perspectives to help inform our work, including PHMSA, the State  
321 of Ohio, pipeline operators, and safety advocates.

322 We are also going to examine the findings of a recent GAO  
323 report which raises numerous serious concerns about the  
324 effectiveness of the Transportation Security Administration's  
325 Pipeline Cybersecurity Program. As the committee of  
326 jurisdiction for energy and interstate commerce -- and let me  
327 say this very clearly -- I am very disappointed that TSA refused  
328 to provide a witness for today's hearing, and I would urge this  
329 administration in the strongest terms possible to cooperate with  
330 our committee and respond to what I believe are legitimate  
331 oversight requests relating to pipeline safety and security.

332 With that, Mr. Chairman, thanks again for holding the  
333 hearing, and I yield back the balance of my time.

334 Mr. Rush. The chair wants to thank the gentleman for his

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335 opening statement and reassure him that our side is eager to work  
336 with him on a bipartisan basis to address all of the issues which  
337 we are recently concerned about. I want to thank you.

338 The chair would like to remind members that, pursuant to  
339 committee rules, all members' written opening statements shall  
340 be made part of the record.

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341           And now, we will proceed to the witnesses' opening  
342 statements, beginning with panel one. I would now like to  
343 introduce our first panel of witnesses for today's hearing.

344           The individual to my left is the distinguished honorable  
345 Howard R. Elliott, Administrator for the Pipeline and Safety  
346 Materials Safety Administration, PHMSA. And next to Mr. Elliott  
347 is Mr. W. William Russell, the Acting Director of GAO. And next  
348 to him is Commissioner Lawrence Friedeman, the Public Utilities  
349 Commissioner for the great State, the Buckeye State, the State  
350 of Ohio.

351           And I want to say that we thank all of our witnesses for  
352 being with us today, and we look forward to your testimony.

353           Let me take a moment just to let you know that I will recognize  
354 you for 5 minutes to provide an opening statement. Before we  
355 begin, I would like to explain the lighting system that is before  
356 you. In front of you is a series of lights. The light will  
357 initially be green at the start of your opening statement. The  
358 light will turn yellow when you have 1 minute remaining. Please  
359 begin to wrap up your testimony at that point. The light will  
360 turn red when your time expires.

361           And so, with that said, Mr. Elliott, welcome, and we  
362 recognize you for 5 minutes for the purposes of an opening  
363 statement.

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364 STATEMENTS OF HOWARD R. "SKIP" ELLIOTT, ADMINISTRATOR, PIPELINE  
365 AND HAZARDOUS MATERIALS SAFETY ADMINISTRATION; W. WILLIAM  
366 RUSSELL, ACTING DIRECTOR, GOVERNMENT ACCOUNTABILITY OFFICE, AND  
367 LAWRENCE FRIEDEMAN, COMMISSIONER, PUBLIC UTILITIES COMMISSION  
368 OF OHIO

369

370 STATEMENT OF HOWARD R. "SKIP" ELLIOTT

371

372 Mr. Elliott. Thank you, Mr. Chairman.

373 Ranking Member Walden, Chairman Rush, Ranking Member Upton,  
374 and esteemed members of this subcommittee, thank you for the  
375 opportunity to testify here today. I look forward to updating  
376 this subcommittee on the Pipeline and Hazardous Materials Safety  
377 Administration's progress in closing open congressional mandates  
378 and in executing our broader safety mission.

379 Let me first say that I understand the frustrations that  
380 have been expressed regarding the outstanding congressional  
381 mandates on pipelines and hazardous materials safety. We are  
382 working hard to ensure our nation's pipeline system remains safe  
383 and finalizing the mandates remains a top priority for PHMSA.

384 Of the 11 remaining mandates from the 2011 and 2016 Pipeline  
385 Safety Act -- there were 61 in total -- three are tied to reports  
386 and other actions, and the remaining eight are tied to in-progress

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387 rulemaking efforts. Those mandates from the 2011 Act, the ones  
388 that have been opened the longest, are being addressed by three  
389 of PHMSA's current rulemakings for gas transmission pipelines,  
390 hazardous liquid pipes, and rupture detection in valves.

391 PHMSA continues to make progress on these rules. The liquid  
392 pipeline safety rule moved out of DOT for final review several  
393 months ago. We have also completed our work on the gas  
394 transmission pipeline final rule and the valve and rupture  
395 detection rule. And these rules are both undergoing internal  
396 review at DOT.

397 I understand that many of you and many of our stakeholders  
398 may feel like we are not moving fast enough on our rulemakings.

399 As a safety practitioner, I appreciate and I fully share those  
400 comments. As PHMSA Administrator, it is my responsibility to  
401 prioritize and pursue those rulemakings that will provide the  
402 greatest safety impact and have the highest likelihood of  
403 preventing events that could negatively impact people and the  
404 environment.

405 To that end, I refer the members of this subcommittee to  
406 my written testimony regarding details of two completed safety  
407 congressional mandates dealing with comprehensive oil spill  
408 response plans for railroads and the transport of lithium ion  
409 batteries by air. In addition, we issued a final rule to

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410 modernize technologies for plastic pipelines that we hope will  
411 further accelerate aging distribution gas line replacements,  
412 which is one of the greatest concerns we have at PHMSA. In  
413 addition to congressional mandates, many of PHMSA's rules must  
414 also address recommendations from the National Transportation  
415 Safety Board, the Government Accountability Office, and our own  
416 safety concerns.

417 PHMSA is working to meet the needs of our expanding domestic  
418 energy production as well. In August of 2018, PHMSA established  
419 a new Memorandum of Understanding with the Federal Energy  
420 Regulatory Commission that eliminates unnecessary and  
421 duplicative regulatory reviews by both agencies.

422 Going forward, PHMSA will operate as the federal  
423 government's LNG safety authority. To date, PHMSA has issued  
424 approximately letters of determination for new LNG facilities.

425 PHMSA has also established a team of cross-agency experts that  
426 are updating the LNG facilities safety standards that date back  
427 to 1980.

428 In addition, PHMSA continues to work to ensure that the  
429 agency has a full complement of field inspectors and headquarters  
430 staff to meet the demands of our safety mission. Safety is the  
431 highest priority for the U.S. Department of Transportation and  
432 for all of us at PHMSA. I am pleased to say that, while making

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433 progress on mandates, PHMSA's oversight role is to continuing  
434 to have a positive impact on safety. Our integrity management  
435 requirements have led pipeline operators to conduct over 90,000  
436 repairs in high-consequence areas.

437 Our field efforts are having an impact, too. Last year,  
438 PHMSA conducted over 12,000 days of inspections and  
439 investigations of pipeline systems. These field activities are  
440 helping to improve safety, as evidenced in the number of reported  
441 pipeline incidents which for 2018 was below the five-year average,  
442 even with PHMSA's expanded regulatory oversight of underground  
443 natural gas storage facilities.

444 Additionally, both pipeline-related fatalities and the net  
445 volume spilled from hazardous liquid pipelines was also below  
446 the five-year average, down 33 percent and 20 percent,  
447 respectively, although we know that even one pipeline casualty  
448 is one too many.

449 These facts, while notable, do not give me reason to pause  
450 during our ongoing safety mission at PHMSA. And even though we  
451 use statistics to help us measure improvements in safety, it is  
452 the vivid reminder in places like Bellingham, Marshall, San Bruno,  
453 Aliso Canyon, Merrimack Valley, and most recently, Durham, North  
454 Carolina, that serve as our motivation and commitment for working  
455 even harder to improve pipeline safety.

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456 Thank you again for inviting me to today's hearing, and I  
457 look forward to your questions. Thank you.

458 [The prepared statement of Mr. Elliott follows:]

459

460 \*\*\*\*\* INSERT 1\*\*\*\*\*

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461 Mr. Rush. I want to thank you, Administrator Elliott.

462 And now, the committee will recognize Mr. Russell for 5

463 minutes for purposes of an opening statement.

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464 STATEMENT OF W. WILLIAM RUSSELL

465

466 Mr. Russell. Good morning, Chairman Rush, Ranking Member  
467 Upton, Ranking Member Walden, and members of the subcommittee.

468 Thank you for the opportunity to testify today about the state  
469 of pipeline safety and security in America and TSA's pipeline  
470 security program. My statement is based primarily on our recent  
471 December 2018 report.

472 As you know, more than 2.7 million miles of pipelines  
473 transport oil, natural gas, and other hazardous liquids that we  
474 all depend on to heat homes, generate electricity, and manufacture  
475 products. Pipelines serve as the veins of our economy and run  
476 through both remote and highly-populated urban areas. As a  
477 result, our pipeline network is a prime target for terrorists,  
478 foreign nations, and others with malicious intent to do physical  
479 and cyberattacks. A successful pipeline attack could have dire  
480 consequences on public health and safety as well as the U.S.  
481 economy.

482 The Transportation Security Administration, TSA, is the lead  
483 agency to ensure the security of our pipeline network. And in  
484 our recent report, we found that TSA provided pipeline operators  
485 with voluntary guidelines to enhance the security of their  
486 facilities. Pipeline operators and industry associations also

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487 reported they effectively coordinate and exchange security  
488 information with TSA.

489 That said, we identified a number of weaknesses in TSA's  
490 management of its pipeline security program, and I would like  
491 to highlight four key areas for improvement.

492 First, pipeline security guidance itself. It is important  
493 for TSA to ensure that its security guidelines, which were updated  
494 in 2018, March of 2018, that they clearly define how to determine  
495 the criticality of a pipeline facility. As a result, pipeline  
496 operators may not be fully reporting all of their critical  
497 facilities, so that TSA can apply appropriate oversight and ensure  
498 that any vulnerabilities have been addressed.

499 Second, workforce planning. TSA also needs to better  
500 evaluate the number of staff and resources that it devotes to  
501 pipeline security. For example, in our review we found the  
502 staffing was as low as one person in 2014 and has since increased  
503 to a total of six FTEs.

504 Establishing a strategic workforce plan could help TSA  
505 ensure that it has identified the necessary skills, competencies,  
506 and staffing allocations that the Pipeline Security Branch needs  
507 to carry out its full responsibilities, including conducting  
508 necessary reviews of pipeline companies and facilities.

509 Third, assessing risk. TSA uses throughput and risk to

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510 identify the top 100 most critical pipeline operators for review,  
511 but has not updated the assessment methodologies since 2014 to  
512 account for changes in the threat environment. For example,  
513 threats to cybersecurity were not specifically accounted for,  
514 making it unclear if cybersecurity threats were considered.

515 Last, effective monitoring. While we found that TSA does  
516 conduct pipeline operator and facilities security oversight  
517 reviews and makes recommendations to address issues found, it  
518 has not tracked and documented the implementation of those  
519 recommendations for over five years. Until TSA monitors and  
520 records the status of pipeline operator progress to implement  
521 needed changes, it will be hindered in its efforts to determine  
522 whether its reviews are, in fact, leading to a significant  
523 reduction in risk.

524 We made a total of 10 recommendations to address these  
525 issues. I am happy to report that TSA agreed with all of them  
526 and has actions underway to address them, largely in this fiscal  
527 year.

528 In conclusion, robust security of our pipeline system is  
529 vital to our economic interests and to mitigate the risks of a  
530 malicious attack. TSA has an important role in this process,  
531 and by implementing the changes, can more effectively carry out  
532 this mission.

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533 Chairman Rush, Ranking Member Upton, and Ranking Member  
534 Walden, this concludes my prepared remarks, and I look forward  
535 to any questions you may have.

536 [The prepared statement of Mr. Russell follows:]

537

538 \*\*\*\*\* INSERT 2\*\*\*\*\*

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539 Mr. Rush. I thank the witness for his opening statement.

540 And now, the chair recognizes Commissioner Friedeman for

541 5 minutes for the purposes of an opening statement.

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542 STATEMENT OF LAWRENCE FRIEDEMAN

543

544 Mr. Friedeman. Good morning. Chairman Rush, Chairman  
545 Pallone, Vice Chair McNerney, Republican Leader Upton, Republican  
546 Leader Walden, thank you. I appreciate the opportunity to be  
547 here this morning, as well as thanks to the other members of the  
548 subcommittee.

549 My name is Larry Friedeman. I am a commissioner at the  
550 Public Utilities Commission of Ohio, known as the PUCO. Each  
551 day as I pass through the PUCO's lobby, I am reminded of our mission  
552 statement. And that is, to provide adequate, safe,  
553 fairly-priced, and reliable utility services to the Ohio  
554 citizens. In short, we are to promote the general welfare by  
555 assuring the provision of essential services to all Ohioans.

556 Implicit in the mandates is not only the need to establish  
557 service, but, just as importantly, to maintain the provision of  
558 safe utility services over time. Pipeline safety integrity is  
559 a foundational element of utility service upon which all Ohio  
560 citizens rely, and there is no higher consideration within the  
561 context of pipeline transmission and distribution than that of  
562 public safety.

563 Ohio has a robust pipeline safety program dedicated to  
564 ensuring the safety and reliability of natural gas service to

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565 Ohioans. We have 113 natural gas pipeline operators and more  
566 than 71,000 miles of transmission, distribution, and gathering  
567 lines. Ohio is one of eight states that act as interstate agents  
568 for the Pipeline and Hazardous Materials Safety Administration,  
569 PHMSA, and has done so since 1973. We have 12 interstate pipeline  
570 operators with over 8,500 miles of regulated interstate  
571 transmission lines.

572 While these pipelines are located within the boundaries of  
573 the State of Ohio, the PUCO does not exercise jurisdiction over  
574 them. But, pursuant to an agency agreement with PHMSA, the PUCO  
575 inspects interstate natural gas pipeline systems based on an  
576 inspection plan agreed to with PHMSA. It investigates incidents  
577 and refers any rules of enforcement identified to PHMSA for  
578 disposition.

579 Ohio also receives funding from PHMSA pursuant to the State  
580 Pipeline Safety Program Base Grant. This is a  
581 reimbursement-based grant authorized to support up to 80 percent  
582 of a state's cost to administer a gas pipeline safety program.

583 In order to qualify, each state's program must comply with PHMSA  
584 requirements.

585 We are proud to say that for the last two years Ohio's program  
586 has received the maximum score available on those annual audits  
587 conducted by PHMSA. Yet, in 2018, notwithstanding the maximum

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588 score, Ohio received not 80 percent, but 72.16 percent of expenses  
589 incurred.

590 The Ohio program has 10 inspectors, performs over 150 audits  
591 annually, and they are primarily focused on pipeline distribution  
592 facilities. Ohio has built and maintained its pipeline safety  
593 program in no small measure because of the assistance received  
594 pursuant to the PHMSA Pipeline Safety Program Base Grant.

595 Through the years, the program has enabled the PUCO to hire,  
596 retain, and train properly its staff. The training occurs at  
597 a PHMSA training center in Oklahoma City, Oklahoma.

598 Now, complementary to the PHMSA-related activities, the  
599 State of Ohio has undertaken some independent initiatives that  
600 I think worth mentioning. More than a decade ago, the PUCO, in  
601 cooperation with Ohio's major natural gas utilities, embarked  
602 on a capital investment program to replace bare steel and cast  
603 iron distribution pipes. The purpose of the program is replace  
604 the pipes with upgraded materials which not only enhance the  
605 structural integrity of the system, but prolong the useful life  
606 of the system. It is not only remedial, but preventative in  
607 nature.

608 Since the inception of the program, Ohio's four largest  
609 investor-owned natural gas utilities have invested over \$3.6  
610 billion in replacement and have replaced over 5,000 miles of

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611 distribution main line and more than 1 million service lines.

612 The progress and value of the program is perhaps best manifested  
613 by the fact that, at the end of 2010, about 20 percent of the  
614 total pipeline fell within categories targeted for replacement;  
615 at the end of 2018, that percentage has been reduced to 12. It  
616 is an inescapably long program in duration, but the PUCO has  
617 ordered accelerated cost recovery to incentivize accelerated  
618 replacement rather than authorizing recovery at more typical  
619 regulatory paradigm structures.

620 In conclusion, I recount the Ohio State's specific  
621 activities. In addition to the PHMSA-related activities, to help  
622 demonstrate the sheer magnitude of the compelling importance and  
623 desirability of federal-state cooperation and coordination, and  
624 enhancing the structural integrity of the natural gas  
625 transmission and distribution system, deliverability,  
626 reliability, and, most importantly, safety are wholly dependent  
627 on effective pipeline safety measures. I would strongly urge  
628 the subcommittee's continuing support for safety  
629 reauthorization. And more specifically, I would urge your  
630 consideration of increasing the total reimbursement to the full  
631 80 percent, as authorized by Congress.

632 Thank you so very much for your time. I would be happy to  
633 answer any questions you have.

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634 [The prepared statement of Mr. Friedeman follows:]

635

636 \*\*\*\*\* INSERT 3\*\*\*\*\*

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637           Mr. Rush. The chair thanks all the witnesses for their  
638 opening statements, and we have now concluded the opening  
639 statements.

640           We will now move to members' question. And each member will  
641 have 5 minutes to ask questions of our witnesses. We will start  
642 by recognizing myself for 5 minutes.

643           Administrator Elliott, there are quite a few issues that  
644 I would like to discuss with you, but, as I say, I only have 5  
645 minutes to do so. And therefore, I will send additional questions  
646 in writing to you regarding the timeline for when PHMSA expects  
647 to complete its congressionally-mandated rulemaking. That  
648 letter, that transmittal will be coming to you soon.

649           And I would also like to hear back from your agency on some  
650 of its workforce issues. Specifically, I would like to hear  
651 whether or not PHMSA does, indeed, have all the sufficient number  
652 of professional staff with the right expertise to handle all those  
653 responsibilities that fall under the agency's jurisdiction,  
654 including conducting timely pipeline inspections and finalizing  
655 its rulemaking.

656           One timely matter that I would like to discuss with you at  
657 this time is the issue I spoke about in my opening statement.

658           How do we get more funding and assistance to the state and local  
659 level in order to help emergency management agencies and first

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660 responders with the resources they need desperately to fully and  
661 effectively carry out their duties? Also, is there a defined  
662 obligation on the part of pipeline operators to work with  
663 county-level emergency managers to develop and maintain an  
664 emergency preparedness plan before an event or an exercise occurs?

665 Mr. Elliott. Well, Mr. Chairman, thank you for those  
666 questions, and I will try to answer them in the order they were  
667 given.

668 Let me first start by addressing, if you don't mind, the  
669 issue of mandates. I am the Administrator. I am responsible  
670 for ensuring that we work quickly to complete the mandates. I  
671 can't attest to actions by previous Administrators. I am the  
672 Administrator now; it is my responsibility. I understand that.

673 But I think we have made good progress. The three rules  
674 that we have heard, going back to a Railroads, Pipelines, and  
675 HAZMAT Subcommittee meeting last June, really made it clear from  
676 both sides of the aisle that we need to move these mandates.

677 As I indicated in my comments, I went back to the staff and  
678 I said, "We need to do better than we are doing now." And I looked  
679 at the oil spill plan for railroads because that was close to  
680 being done and was a very, very important rule, as well as the  
681 prohibition of lithium batteries in passenger aircraft, which  
682 was another great concern.

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683           But the pipeline bills were equally important. We finished  
684 our work on the liquid pipeline rule. And again, as I had  
685 mentioned, that has been over at OMB now for about 50 days, and  
686 we are hoping to get a response back fairly soon.

687           The two other rules that were of greatest concern, the gas  
688 transmission pipeline, we have completed our work there. It has  
689 been done for a while and it is going through the internal review  
690 process at DOT. We have been very responsive to questions that  
691 are coming back from the Office of the Secretary. So, we are  
692 being as responsive as we can to respond.

693           The one bill that I think seems to have obtained the most,  
694 and probably rightfully so, the most focus is the rupture and  
695 automatic valve rule. And that wasn't in a final rule stage.

696           That one was in a Notice of Proposed Rulemaking. So that one,  
697 agreeably, has languished the most. Our team has finished the  
698 writing of that Notice of Proposed Rulemaking. That, too, is  
699 also being reviewed by the Secretary's Office.

700           So, all three of those we really hope to see two final rules  
701 completed and a Notice of Proposed Rulemaking moving forward.

702           We have several other mandates behind that that we are working  
703 equally hard on.

704           To address the question about staffing, we have 581 employees  
705 at PHMSA. About 310 are assigned to the pipeline side. I have

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706 mentioned before it is tough for us to compete with industry to  
707 hire good, qualified, as you said, pipeline engineers.

708           Interesting, I was in Atlanta yesterday, and my Director  
709 of Human Resources was over at Virginia Tech trying to figure  
710 out how we can create a better recruiting bed at colleges and  
711 universities that put out good engineers. I think part of the  
712 problem is we need to make people more aware of the important  
713 safety mission of PHMSA, because I think once they understand  
714 that, we are going to be more attractive to be in a place to hire.

715           But, right now, we have done a great job in filling the gaps,  
716 the voids that we had in our hiring, and it has given me a better  
717 position to see how effective are we with the current staff.

718           I especially appreciate your comments about emergency  
719 responders. In my 40 years in the railroad, I was responsible  
720 for emergency response. And during that time, I lived in New  
721 Jersey and was actually the part-time emergency management  
722 coordinator for the town that I lived in in south Jersey. So,  
723 I fully appreciate the fact that we need to do more to help  
724 emergency responders. And you are absolutely correct, it is a  
725 responsibility of the oil and gas industry to make sure that they  
726 work with emergency responders, especially on drills and  
727 exercises.

728           Mr. Rush. I want to thank you. And I want to just remind

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729 you that we will be submitting additional questions for the  
730 record.

731 The chair now recognizes Mr. Upton for 5 minutes for the  
732 purposes of asking questions.

733 Mr. Upton. Well, thank you, Mr. Chairman.

734 And again, I want to appreciate the testimony that you all  
735 provided us today. I know that we have a good number of questions.

736 I particularly want to thank Mr. Elliott, the Administrator,  
737 for his personal review of the nation's pipelines. I know you  
738 have been to Michigan a number of times. You have met with  
739 Republicans and Democrats, as we all care about these issues.

740 And I just really appreciate your hands-on experience and your  
741 willingness to come and help us here.

742 It is been clear for a long time that pipelines are really  
743 the safest way to transport oil and gas as it relates to incidents.

744 But, of course, as you said in your testimony, it just takes  
745 one bad issue to really blow up and make a mess, a big mess of  
746 things in a major way.

747 As you heard in my opening statement, yes, we are  
748 disappointed that TSA is not here. And I guess some could suggest  
749 that TSA has really increased by sixfold their inspectors, because  
750 it has gone from one to what I thought was six, but I am now told  
751 that it is now less than a handful; it is actually four. Is that

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752 correct?

753 Mr. Russell. That is correct.

754 Mr. Upton. So, there I was giving them the benefit of the  
755 doubt that it was a handful plus one, but it is actually less  
756 than a handful of folks around the country, which I don't think  
757 is a very good trend.

758 This committee has worked a long time on cyber protections.  
759 God help us if somebody gets into one of these systems and does  
760 something bad, that would really pose a problem. We are all aware  
761 of public events the FBI and others have talked about. But I  
762 guess I want to refer this to Mr. Russell, as the GAO.

763 In your report, what type of emphasis has TSA, knowing that  
764 they have these massive resources to look at the potential for  
765 a cyberattack on any of our pipelines, what have they done to  
766 address that, knowing that, in fact, there are published incidents  
767 of collusion? Let me put it that way. State-sponsored.

768 Mr. Russell. That is correct. So, as DNI Coats recently  
769 acknowledged in the last intelligence assessment, you have nation  
770 states with the full capability to do harm to our pipeline network.

771 And as you mentioned, with TSA's resources, it was six when we  
772 concluded our report in December. So, if it is down to four,  
773 that is, as you mentioned, less than a handful.

774 And one of the concerns that we found in our review was the

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775 pipeline security officials did not necessarily have the  
776 requisite expertise and skills when it came to cybersecurity.  
777 And that is one of the things that we recommended that TSA try  
778 to account for when it does its workforce plan, as part of one  
779 of our recommendations.

780 Mr. Upton. On page 6 of the GAO report, it says, and I will  
781 quote this to you, "Our analysis of TSA's data found that at least  
782 34 of the top 100 critical pipeline systems TSA deemed highest  
783 risk indicated that they had no critical facilities." Can you  
784 dive a little deeper into that? What are they missing? Where  
785 should they be?

786 Mr. Russell. Sure. So, the way it works now is it is a  
787 voluntary process. So, the pipeline operators --

788 Mr. Upton. Should it be mandatory?

789 Mr. Russell. One of the first steps, I think, and where  
790 we went with the recommendation, was for TSA to clarify their  
791 guidelines first, to make it more clear what is the definition  
792 of a critical facility. And that is what we found, is that there  
793 is some confusion around that, such that a full third of the top  
794 100 most critical pipeline operators had not identified any  
795 critical facilities, which, then, affects which reviews that you  
796 do.

797 Mr. Upton. I am sorry to interrupt, but what wouldn't be

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798 critical? I mean, we had this Kalamazoo Enbridge line that went  
799 in the Kalamazoo River. It was a billion dollars for Enbridge  
800 to clean that up. They didn't report it for what turned out to  
801 be a couple of days, and it was a pretty major -- in Michigan,  
802 so, you know, it crosses your hand here. But a billion dollars,  
803 just a small -- I mean, what is not critical that they would look  
804 at?

805 Mr. Russell. Well, these are self-reported, so it is up  
806 to each of the pipeline operators to self-identify what is their  
807 critical facility. And that brings it around, I think, to one  
808 of the other points in the opening statement, around the  
809 recommendation followup. So, as TSA does their corporate  
810 security reviews, they may ask questions of the pipeline  
811 operators, hey, it looks like you may have a critical facility  
812 here. That may even be a recommendation. But if they don't go  
813 back to follow up to see if it is implemented, then you are  
814 continuing to have that risk.

815 Mr. Upton. Knowing that my time is expired, let me just  
816 make a quick comment, not a question. And that is, for that  
817 particular pipeline, good news, it was completely replaced,  
818 replaced at the new standards that this committee pushed through.

819 I want to say it was about \$4.5 million per mile as it crossed  
820 the State. But we took care of it the right way.

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821 Thank you very much for your testimony.

822 Mr. Russell. Sure.

823 Mr. Upton. I yield back.

824 Mr. Rush. The chair now recognizes Mr. Peters from the great  
825 State of California for 5 minutes.

826 Mr. Peters. Thank you, Mr. Chairman. Thank you for having  
827 this hearing today.

828 I had a couple of questions, maybe to follow up on the issue  
829 of resource constraints. I heard requests over the years for  
830 the increased use of technology to expedite gas pipeline  
831 inspections and safety monitoring. It might be a little bit of  
832 a double-edged sword with respect to cyber, but I will get to  
833 that with Mr. Russell.

834 But, Mr. Elliott, are there technologies that you think need  
835 to be incorporated so that industry and regulators can better  
836 evaluate pipeline safety, particularly given the resource  
837 restraints we see at TSA?

838 Mr. Elliott. Congressman, thank you for the question. The  
839 short answer is yes. If I can elaborate, I will tell you that  
840 in my year and a half as the Administrator of PHMSA, but backed  
841 by many years in the rail industry, where we saw technology move  
842 in leaps and bounds, I have seen the same thing in the use of  
843 technology to help quickly expand the capabilities of in-line

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844 pipeline inspection technology.

845 One concern that I have with that is, even as good as it  
846 is, it is still not perfect. And much of the in-line inspection  
847 tools that are in place today -- and again, the level of  
848 sophistication is amazing -- really focus on three purposes.  
849 One is to extend the usable life of the infrastructure. The  
850 second actually is to help reduce the amount of actual physical  
851 inspections that have to be done, thereby reducing cost. And  
852 the third is an absolute tangible improvement in safety.

853 At PHMSA, we focus on trying to encourage the research and  
854 development both with the dollars that we have that go into R&D  
855 and what we encourage industry to do, to really focus, first and  
856 foremost, on the absolute safety value there. One of the  
857 criticisms we get is PHMSA's inability to move quickly to get  
858 out of the way of industry to implement this new safety technology.

859 And I would agree with that. I think our special permitting  
860 process is a bit slow. Part of the language that we are trying  
861 to look at in reauthorization will help speed that up. But I  
862 do think that technology will continue to expand at a rapid pace  
863 and will continue to improve pipeline safety.

864 Mr. Peters. And you think that is something that is being  
865 taken care of by industry? Or do you think that Congress needs  
866 to take action?

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867           Mr. Elliott.   Congressman, I do believe that is something  
868           that industry is taking care of themselves, because it benefits  
869           the ability to, as I have mentioned, to extend the life of the  
870           infrastructure and help reduce inspection cost. I will tell you  
871           that, as PHMSA, we spend our R&D dollars more on what we consider  
872           to be step-change R&D, maybe not the safe R&D. For example, one  
873           of the R&D efforts that recently has been successful in dollars  
874           that we put is the ability to locate plastic pipe. Distribution  
875           lines are going more to plastic pipes. You can't use the same  
876           technology to locate the pipes. So, we would like to see more  
877           industry dollars go to some of that more step-change safety that  
878           is not really being focused on as much.

879           Mr. Peters.   I didn't hear you mention, explicitly mention,  
880           leak detection as one of the purposes, the objects of the  
881           technology, but I assume that would be covered as well?

882           Mr. Elliott.   Yes, I do think -- and again, in my time I  
883           have been relatively impressed, at least in the leak detection  
884           capabilities that exist in control rooms. But probably more to  
885           your point, there is more that I think that can be done to identify  
886           smaller, some of those imperceptible leaks which tend to plague  
887           the industry. I think the larger releases, the systems seem to  
888           do a very good job. But you are probably correct, both with the  
889           in-line inspection capabilities that might identify issues before

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890 they ever turn into a leak -- all of that I think with time will  
891 continue to reduce the likelihood of both large-scale leaks and  
892 small leaks.

893 Mr. Peters. Okay. Thank you.

894 Mr. Russell, in terms of lethality and cost of recovery,  
895 are pipelines in America more at risk from a cyberattack or a  
896 physical attack?

897 Mr. Russell. I think there are definitely physical security  
898 concerns, as we have seen with environmental groups and others  
899 that cause damage. But the cyber threat is one that is ever  
900 emerging and ever evolving. And I think that is one where we  
901 thought there is more that could be done.

902 Mr. Peters. Let me ask you this, because I have a minute  
903 left.

904 Mr. Russell. Yes.

905 Mr. Peters. As industry continues to deploy technology,  
906 how should the government make sure that, from a cyber  
907 perspective, our citizens are protected? Because, I mean,  
908 technology is the point where bad actors tend to try to make those  
909 inroads. What do you think is the role for the government, either  
910 administrative or the Congress, to make sure that we protect our  
911 citizens from a cyberattack?

912 Mr. Russell. Sure. I think it boils down to robust

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913 oversight. So, do pipeline operators understand what their  
914 operating systems are, their control systems --

915 Mr. Peters. Right.

916 Mr. Russell. -- data systems, the industrial control  
917 systems that would be the point of attack? And have you  
918 adequately protected those? Anything that government can do to  
919 put out a framework -- so, for example --

920 Mr. Peters. I have got 4 seconds left. So, I appreciate  
921 the answer. I would say let's continue to work on that together.

922 Thank you for showing up. And when you say "oversight," and  
923 we have the TSA not showing up, obviously, that frustrates the  
924 purpose, the ability of us to do oversight. So, I just note that  
925 for the record as well.

926 And I yield back.

927 Mr. Rush. The chair now recognizes the gentleman from Ohio,  
928 Mr. Latta, for 5 minutes.

929 Mr. Latta. Thanks, Mr. Chairman, and thanks very much for  
930 holding today's hearing. It is very, very important that we have  
931 this hearing.

932 And I want to thank our panelists for being with us today.

933 I would also like to, again, welcome Commissioner Friedeman  
934 for being with us today. He comes from northwest Ohio, not too  
935 far from where I am from. And so, we appreciate you being here,

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936 making the effort.

937 If I could start my question with you, if I may, Commissioner  
938 Friedeman, as you mentioned in your testimony, Ohio is only one  
939 of eight states that acts as an interstate agent for PHMSA, which  
940 comes with considerable additional responsibility. Will you  
941 inform the subcommittee about Ohio's working relationship with  
942 PHMSA?

943 Mr. Friedeman. Yes. Thank you for the question,  
944 Representative Latta.

945 I think if you were to ask the commission staff anecdotally,  
946 they would characterize the relationship as professional,  
947 mutually-respectful, cooperative, as well as productive. I  
948 mean, there is an acknowledgment of a shared accountability, I  
949 believe, in terms of the interstate pipeline and the assumption  
950 of responsibilities associated with the inspection. It enables  
951 the commission staff, frankly, to leverage in terms of funding  
952 in a way, again, to train, retrain, and retain good, qualified  
953 individuals, which then serves to benefit Ohio, and exemplary  
954 in terms of the compelling need to address these same situations  
955 nationally. So, it is a very positive relationship.

956 Mr. Latta. Thank you very much.

957 Administrator Elliott, what could Congress do to help drive  
958 innovation and foster an environment where operators can

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959 incorporate new technologies and best practices?

960 Mr. Elliott. Congressman, thank you for the question.

961 I think perhaps the best way is just continued support, and  
962 perhaps even a greater thirst for understanding how the oil and  
963 gas pipeline industry applies technology and innovation. Again,  
964 as I had mentioned earlier, it is a fairly constant drumbeat for  
965 us at PHMSA to encourage the pace at which that gets put into  
966 place. But I do believe that the more that people understand  
967 what is in place, and what more can be done, there might be some  
968 additional encouragements that can be brought to bear.

969 Mr. Latta. Let me followup. Would more data and  
970 information demonstrating the capabilities of new technologies  
971 operating in real-world situations be helpful to PHMSA as it  
972 pursues updates to inspection and maintenance/repair critical  
973 in these regulations?

974 Mr. Elliott. Yes, I think we have a large thirst for good,  
975 reliable data. We maintain a lot of that already, but I think,  
976 Congressman, the only way we are going to continue to get better  
977 is to continue to seek information/data that is going to allow  
978 us to continue to improve our safety mission.

979 Mr. Latta. Thank you.

980 Commissioner Friedeman, I understand that Ohio has a good,  
981 accelerated pipeline replacement program. Would you talk a

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982 little bit about the commission's role to ensure that pipeline  
983 rates are adequate to allow for pipeline replacement and  
984 modernization?

985 Mr. Friedeman. Yes, sir. Thanks again for the question.

986 The commission needs to remain cognizant of the fact that  
987 the costs associated with the capital investment concomitant to  
988 the implementation of the program are essentially allocated  
989 socially across rate base. So, as I alluded to in my opening  
990 statement, there is a means by which we, the commission, not only  
991 incentivized accelerated replacement, but accelerated recovery.

992 Now associated with that accelerated recovery is an annual audit  
993 where the commission could revisit the expenses and the prudence,  
994 and the various criteria by which we can appropriately balance  
995 the costs associated with the investment against the benefits  
996 derived from the investment.

997 Mr. Latta. Thank you.

998 Mr. Russell, if I could go to your testimony when you found  
999 -- you said, on page 5, "We found that TSA's Pipeline Security  
1000 Branch had issued revised Pipeline Security Guidelines back in  
1001 March of 2018, but TSA had not established a documented process  
1002 to ensure that revisions occur and fully capture updates to  
1003 supporting standards". But you go down, you get right into  
1004 "reflect the dynamic threat environment and to incorporate

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1005 cybersecurity principles".

1006 I am concerned because in this subcommittee and this full  
1007 committee we hear a lot about the attacks that occur out there.

1008 And how much is TSA taking these threats on the cyberattacks  
1009 that are occurring on the pipelines out there to make sure that  
1010 these guidelines get in place?

1011 Mr. Russell. Right. So, they were able to update them in  
1012 March 2018, as you mentioned. Part of that update was to include  
1013 more guidance for the pipeline operators on cybersecurity issues.

1014 Why we think it is very timely and needed for them to have a  
1015 process to continue to update that is, about a month after the  
1016 guidelines came out, there was a new set of an updated framework  
1017 from NIST that included some additional provisions around supply  
1018 chain risks and some other things that are important to also  
1019 incorporate. So, our concern is that we want TSA to have a  
1020 process, so you don't wait another six or seven years to, then,  
1021 incorporate those standards into the Security Guidelines.

1022 Mr. Latta. Thank you very much.

1023 Mr. Chairman, my time is expired and I yield back.

1024 Mr. Rush. The chair thanks the gentleman.

1025 The chair recognizes the chairman of the full committee,  
1026 Mr. Pallone, for 5 minutes.

1027 The Chairman. Thank you, Mr. Chairman.

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1028            Obviously, we are beginning the process of developing  
1029            legislation to reauthorize the Pipeline Safety Act. And first,  
1030            we have to understand the current state of affairs and what work  
1031            remains incomplete from previous reauthorizations. But,  
1032            unfortunately, as I noted in my opening statement, numerous  
1033            congressional mandates from the 2011 and 2016 reauthorizations  
1034            have not been finalized by PHMSA.

1035            So, I wanted to start with Administrator Elliott. I would  
1036            like to ask you for updates on some of these outstanding mandates.

1037            First, what is the status of the rulemaking on emergency order  
1038            authority that was included in the 2016 Pipes Act?

1039            Mr. Elliott. Mr. Chairman, thank you for the question.  
1040            As you may recall, we submitted an Interim Final Rule for the  
1041            emergency order authority, which we believe gives us the intended  
1042            authority that Congress was looking for. We have since, after  
1043            further public review and comment, have made some modifications  
1044            to that specifically about the timelines that industry may have  
1045            to do an appeal to that process. We have completed our final  
1046            rule language, and it is currently over at OMB.

1047            The Chairman. Okay. Now what is the status of the  
1048            rulemaking mandated in the 2011 Act to expand integrity management  
1049            beyond high-consequence areas?

1050            Mr. Elliott. Well, really, that falls into two rules that

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1051 we are working on, the liquid safety rule, which I had mentioned  
1052 in my comment there is some integrity management aspects there.  
1053 We have finished our work there, and that also is at OMB.

1054 The other component is in the gas transmission rule. When  
1055 I first came to PHMSA about a year and a half ago, that gas  
1056 transmission rule was affectionately referred to as the "mega  
1057 rule". It had gotten so big, I don't know how it could have ever  
1058 moved. So, we split it into three parts, the mandate section,  
1059 another section of the bill that deals with integrity management,  
1060 some damage prevention, and the third part is gathering lines.

1061 We have completed our work on the mandate section, and we are  
1062 actively working on the second section of that that deals with  
1063 some additional integrity management work.

1064 The Chairman. And then, lastly, what is the status of the  
1065 rulemaking mandated in the 2016 Act to regulate underground  
1066 natural gas storage facilities?

1067 Mr. Elliott. Right. We have completed our work with that,  
1068 and that is also being reviewed by the Office of the Secretary.

1069 The Chairman. Now I know, Administrator Elliott, that you  
1070 inherited many of these delayed mandates, but the fact remains  
1071 that your agency is behind schedule, obviously. So, we hope we  
1072 will begin to see major progress this year.

1073 And I wanted to shift briefly to Bill Russell from GAO.

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1074 Your December 2018 report highlighted troubling weaknesses in  
1075 the Transportation Security Administration's pipeline security  
1076 program. And in your report, you found that the TSA Pipeline  
1077 Security Branch had not calculated relative risk among the top  
1078 100 critical pipeline systems using its risk-ranking tool since  
1079 2014, and that the risk-ranking tool did not include current data.  
1080 So, my question is, can you please elaborate on these findings  
1081 and how GAO's recommendations address the shortfalls you  
1082 identified in TSA's risk-ranking tool?

1083 Mr. Russell. Right. So, the risk-ranking tool is critical  
1084 because that really shapes which companies, which pipeline  
1085 operators TSA is going to review with the limited resources that  
1086 they have. So, what we saw is some shortcomings in how they  
1087 thought about the threats that were encountered. Obviously, from  
1088 2014 to now, there have been evolving threats. One of the  
1089 questions we had was the extent to which some of the cybersecurity  
1090 issues had been factored into that initial risk assessment.  
1091 Another one had to do with just the safety of the pipeline system.  
1092 So, for example, a pipeline network may be more vulnerable if,  
1093 for example, PHMSA has identified some age and safety issues.  
1094 Was that factored into the risk ranking in order to prioritize  
1095 reviews? So, we had four different recommendations to try to  
1096 get at some of these issues.

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1097           The Chairman. I mean, you know I am very concerned,  
1098 obviously, as many of us are here, that TSA is working with  
1099 outdated information, which can have dire consequences for a  
1100 program focused on the security of the country's pipeline network.  
1101           And again, it is unacceptable that TSA refused to testify at  
1102 this hearing or explain how it is responding and reacting to the  
1103 troubling findings in GAO's report. But I certainly appreciate  
1104 what GAO is doing and your ongoing efforts to do oversight of  
1105 this.

1106           So, thank you, Mr. Chairman.

1107           Mr. Rush. The chair now recognizes Mr. McKinley, my friend  
1108 from West Virginia, for 5 minutes.

1109           Mr. McKinley. Thank you, Mr. Chairman.

1110           I will go back, the title of this hearing says it is the  
1111 "State of Pipeline Safety and Security in America". The state  
1112 of pipeline safety and security in America. So, I am just  
1113 curious, if we look back -- I have got a chart here that says  
1114 that, in the last 10 years, we are now transporting nearly 40  
1115 percent more material through our pipelines, gas and fuel oil,  
1116 and whatever, a 40 percent increase on that.

1117           Also, we have seen that, since 1999 to today, last year,  
1118 the number of incidents have not varied much. I guess back to  
1119 an earlier comment, someone said, if there is just one, it is

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1120 a problem. And I don't think anyone would disagree with that.  
1121 But I think the reality is, when you are transporting 614 million  
1122 cubic feet of material, that there is a chance, just like in an  
1123 airplane, with 737 Max and others, there is going to be a chance  
1124 of something going wrong. But, over nearly 20 years, we virtually  
1125 had no increase in incidents. We were 275; we dropped to 233,  
1126 258, 264, 278, 303. There were 286 last year. So, it is  
1127 essentially the same, and we are transporting tremendously  
1128 increase in product.

1129 So, I am curious on this. How would you grade, Mr. Elliott,  
1130 how would you grade your performance? Is it the fact that there  
1131 are any, this is a "C" or a "D"? Or how would you give it a grade  
1132 in overall safety and security of America with our pipeline  
1133 system?

1134 Mr. Elliott. Congressman, thank you for that very important  
1135 question. Before I assign a grade, I will tell you we can never  
1136 ever do enough. We will constantly strive every day, at least  
1137 while I am in the Administrator's chair, to improve the safety,  
1138 not only of pipeline safety. And a lot of people forget we also  
1139 have the responsibility of surface transportation safety, which  
1140 is 1.2 million shipments of hazardous materials a day, in addition  
1141 to the 2.7 million miles of pipeline that we have.

1142 But if I were to give a grade, I would give us a "C," because

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1143 I think we are doing well, but we are never doing good enough.

1144 I think some of the comments that we had earlier, I do think  
1145 that we will continue to see great advancements in safety through  
1146 technology, innovation, research and development. But, from my  
1147 perspective, I think it is going to be constantly working with  
1148 the highly professional team at PHMSA to make sure that each and  
1149 every day that we are out working with operators and members of  
1150 the public to make the transportation of energy products by  
1151 pipeline as practical and safe as possible.

1152 Mr. McKinley. Thank you.

1153 Mr. Russell, how would you grade it? Because you have got  
1154 an outside view of it. Given the increased traffic, virtually  
1155 no increase in number of incidents, but there are incidents.  
1156 And as I said before, I don't like that, either. But how would  
1157 you grade it?

1158 Mr. Russell. I think, overall, based on our most recent  
1159 report, it is clearly needs improvement, whether it is taking  
1160 care of some elements in the Pipeline Security Guidelines that  
1161 the pipeline operators rely on to help manage their processes,  
1162 being a little bit more diligent on just following up on the  
1163 common-sense recommendations that the pipeline security folks  
1164 at TSA make to those operators.

1165 Mr. McKinley. Well, if I could, let me follow up with that

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1166 a little bit.

1167 Mr. Russell. Sure.

1168 Mr. McKinley. Because I interpret what you are saying is  
1169 maybe more regulations. So, I am curious, because I have got  
1170 the Atlantic Coast Pipeline. I think we have heard about that.

1171 There are 67 permits that had to be granted, 67, for FERC, FAA,  
1172 the Federal Communications Director, and NOAA, the National Park  
1173 Service, the Corps of Engineers in Huntington, Pittsburgh,  
1174 Norfolk, Wilmington. I could go on and on. Sixty-seven  
1175 different permits to be able to -- do you think the increased  
1176 regulations -- I am not talking about doing away with any of them  
1177 -- but increasing the number of regulations, is that going to  
1178 give us more safety and security of our pipeline?

1179 Mr. Russell. Well, I will say, for the TSA role, there isn't  
1180 a regulation. It is a voluntary-based system. So, I think our  
1181 point is just making sure that that process works as effectively  
1182 as possible, in the absence of a regulation.

1183 Mr. McKinley. I will think about that a little bit. Thank  
1184 you.

1185 And I yield back.

1186 Mr. Russell. Sure.

1187 Mr. Rush. The chair now recognizes Mr. Doyle for 5 minutes.

1188 Mr. Doyle. Thank you, Mr. Chairman, and thank you for

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1189 holding this hearing today.

1190 This conversation is particularly important to my district  
1191 of Pittsburgh. Pennsylvania's energy mix has rapidly  
1192 transformed in recent years due to the Marcellus Shale. And as  
1193 a result of the natural gas boom, Pennsylvania is experiencing  
1194 a buildout of infrastructure from pipelines to the Shell cracker  
1195 plant in Beaver County, just outside my district. This can be  
1196 a great resource, but only if we ensure that the pipelines meet  
1197 stringent safety and environmental standards, so that we are  
1198 protecting the health and safety of the people of Pittsburgh as  
1199 well as the country.

1200 Mr. Elliott, Carnegie Mellon University in my district is  
1201 a world-class center for robotics, which can play a vital role  
1202 for monitoring the safety and security of pipelines and protecting  
1203 the environment. How does PHMSA take into account new and  
1204 emerging technology, and how do you ensure the performance  
1205 standards reflect the most effective technology available?

1206 Mr. Elliott. Well, Congressman, thank you, and I  
1207 appreciated visiting the gas transmission work going on in your  
1208 district last week.

1209 As I mentioned, PHMSA provides R&D dollars to help ensure  
1210 that we are staying current with the most cutting-edge. One of  
1211 the ways that we do that is on a biennial basis -- and we are

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1212 actually thinking now to do it more often -- we hold an R&D forum  
1213 where we allow colleges and universities, and others that are  
1214 involved in pipeline research and development, to come in, and  
1215 we kind of spell out what we are looking for, where we think we  
1216 need to see research and development progress in the pipeline,  
1217 especially the pipeline safety area. And then, from that forum,  
1218 we receive applications for R&D, some of it actually including  
1219 robotics that you mentioned about. And then, based on the best  
1220 applications, we will provide the funds that we have to pursue  
1221 that R&D. I wish we could do more, but we do the best we can.

1222 Mr. Doyle. Let me ask you, several pipelines are under  
1223 construction in Pennsylvania right now. Late last year, it was  
1224 reported that energy transfer in Sunoco had amassed more than  
1225 800 state and federal permit violations while building two  
1226 pipelines, the Rover and Mariner East 2, across Pennsylvania and  
1227 Ohio. I have concerns that the two pipelines, despite being under  
1228 construction, have polluted waterways with gallons of drilling  
1229 fluid and created sinkholes in backyards. Can you please  
1230 describe some of these violations?

1231 Mr. Elliott. Well, Congressman, thank you for the question,  
1232 and we continue to work very closely with our state partners in  
1233 Pennsylvania that have been doing most of the oversight there.

1234 And I will tell you, yes, I think we have at PHMSA a concern,

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1235 based on our dialog with the state pipeline office, about perhaps  
1236 a lack of professional construction methods that are being used.  
1237 So, I think we wholly support the actions that are being taken  
1238 at the state level to enforce perhaps a more rigid construction  
1239 standard.

1240 The work that I did for many years in the railroad industry  
1241 -- and Pennsylvania was one of the big states that we worked in  
1242 -- I also oversaw all of the environmental aspects of the railroad.

1243 And I will tell you that I have a great concern any time there  
1244 is any kind of impact to the environment, whether or not it is  
1245 hazardous substance or whether or not it is material that  
1246 basically is a byproduct of directional boring, which was some  
1247 of the case we had here.

1248 Mr. Doyle. Right.

1249 Mr. Elliott. So, I agree with the aggressiveness that the  
1250 state oversight is providing here.

1251 Mr. Doyle. Studies have shown, since 2010, at least two  
1252 critical detection systems designed to help operators avoid  
1253 costly accidents only were detecting right away spills roughly  
1254 12 percent of the time. In fact, random observations from the  
1255 public were nearly four times more effective in detecting leaks.

1256 Given that PHMSA studies have shown that industry leak detection  
1257 can be unreliable, what is PHMSA doing to incorporate modern leak

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1258 detection standards into its rulemaking, and when can we expect  
1259 action on that?

1260 Mr. Elliott. Well, Congressman, again, thank you for the  
1261 question. And we have incorporated some additional leak  
1262 detection language within both our liquid and gas rulemakings.

1263 But I will also say that it is our intent, I think, to continue  
1264 to see progression in the technology and the actions by the  
1265 operators that will identify the potential for any kind of small  
1266 leak. The larger leaks, typically, are the ones that the industry  
1267 will quickly identify through their control rooms. It is those  
1268 small leaks that propagate and may go unnoticed for many days.

1269 I think that is where technology is going to be most useful,  
1270 to find areas of likely release and get in and correct that long  
1271 before it can ever harm the environment.

1272 Mr. Doyle. Thank you.

1273 Mr. Chairman, thank you. I yield back.

1274 Mr. Rush. I want to thank the gentleman for yielding back.

1275 The chair now recognizes the gentleman from Virginia, Mr.  
1276 Griffith, for 5 minutes.

1277 Mr. Griffith. Thank you very much, Mr. Chairman.

1278 I am going to pick up with Mr. Doyle's questions. But,  
1279 first, I want to thank you for mentioning Virginia Tech, which  
1280 is in my district, and I hope that you all were successful in

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1281 finding some folks there who are willing to work for you. There  
1282 is a lot of good people. So, I know that it was a worthwhile  
1283 trip.

1284 Mr. Doyle was already picking up on it, and there are a lot  
1285 of new technologies coming out. One that I have looked at that  
1286 I think has some real potential is fiberoptic, you know, placing  
1287 that out there to track leaks.

1288 We have a couple of pipelines coming through Virginia, one  
1289 of which comes through my district and comes very close to Virginia  
1290 Tech. And a lot of people are concerned about the safety, and  
1291 the small leaks, as you said, are where the new technologies can  
1292 go. But what is PHMSA doing to remove any regulatory barriers  
1293 -- and let me know if you think there are some -- and incentivize  
1294 the adoption of new technologies? Because we have got this big  
1295 gas pipeline coming through, and it appears to me that FERC is  
1296 not requiring that they use some of these new technologies to  
1297 make sure that these facilities are completely safe. And even  
1298 if it is just a small gas leak, what is small today, as you know,  
1299 can be big tomorrow and can cause a problem not only to the  
1300 environment, but to the people who live near that pipeline.

1301 Mr. Elliott. Congressman, thank you for the question. I  
1302 think one of the items that I have been most impressed with is  
1303 we have seen advancements in technology. And I do believe that,

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1304 as we see new construction and complete replacement of pipelines,  
1305 I do think that you are going to see -- and some is available  
1306 today and some will continue to be available -- that the pipeline  
1307 installation process will include systems that will self-report  
1308 the health of the pipeline above and beyond what happens today  
1309 with in-line inspection technology.

1310 So, I think the combination of several things, continuing  
1311 use of integrity management systems by the operators, the  
1312 continued expansion of technology and in-line inspection  
1313 technology, and then, the continued use of self-diagnostic  
1314 capabilities with new and totally replaced pipeline. I do think  
1315 that in the not-too-distant future we will probably see new  
1316 constructed pipeline that will be able to self-report on a regular  
1317 basis its real-time health.

1318 Mr. Griffith. So, here is my concern and the concern my  
1319 constituents have. And I know they were trying to sell product,  
1320 but some folks came in with their fiber optics and they were able  
1321 to show how they can detect based on the temperature change.  
1322 If you just lay that fiberoptic on top of the pipeline, you can  
1323 tell if there is a small leak. You can also tell if somebody  
1324 is trying to do physical harm to the pipeline, for whatever  
1325 reasons, because they in real time can see if somebody is driving  
1326 up or walking up to the pipeline, if somebody starts digging near

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1327 the pipeline. They can see all of that.

1328 And yet, the pipe is not in the ground yet. The technology  
1329 appears to be ready. And FERC doesn't seem to be requiring it.

1330 Do you all work with FERC to say, hey, this is new technology?

1331 It is not that expensive, and when you are talking about a  
1332 pipeline that is going to be in the ground for decades and near  
1333 a lot of communities, I think people would sleep a lot better  
1334 in my district if they knew that that was there. And it is not.

1335 There is no plan for it. The pipe is not in the ground yet in  
1336 a large part of my district. What can we do to encourage the  
1337 operators to do that? And what can you all do to work with FERC  
1338 to say, hey, this is something that really ought to be done?

1339 Mr. Elliott. Well, we will continue to have dialog with  
1340 FERC on a regular basis, and we will discuss that. But I think  
1341 one of the other things that we can do in the regular dialog that  
1342 we have with the oil and gas operators is to continue to push  
1343 the use of new technologies that will minimize leaks and releases  
1344 of pipelines. We can have that conversation with them.

1345 Mr. Griffith. I certainly hope that you will. And there  
1346 are some new people in FERC. So, I don't want to say that they  
1347 are all like this, but I will tell you, at one point a few years  
1348 back, we had three Congressmen from our region who asked for  
1349 additional hearings and we got nothing. And that is very

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1350 discouraging. It doesn't seem like they are very open to input.

1351 I hope you have a different experience.

1352 That being said, I have got a few more seconds. What is  
1353 your favorite new technology on pipeline safety? You have got  
1354 to have one that you are just like, hey, that is pretty neat.

1355 Mr. Elliott. To me, I actually think it is the ability to  
1356 locate non-metallic pipeline that is becoming so prevalent in  
1357 natural gas distribution systems in major metropolitan areas,  
1358 because I think that has the greatest opportunity to create  
1359 safety. I know in the incident that occurred in Durham, North  
1360 Carolina, where a directional boring machine tapped into a  
1361 distribution line -- I just think that the ability to be able  
1362 to more accurately identify non-metallic pipeline is probably  
1363 my thing.

1364 Mr. Griffith. I appreciate that. Thank you.

1365 And I yield back.

1366 Mr. Rush. The chair now recognizes Mr. McNerney from  
1367 California for 5 minutes.

1368 Mr. McNerney. Well, I thank the chairman for that.

1369 And I thank the witnesses this morning.

1370 Administrator Elliott, on September 9th of 2010, I was on  
1371 the San Mateo Bridge when the San Bruno explosion occurred. Two  
1372 of my three children live in peninsula just south of San Francisco.

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1373       Also, the Aliso Canyon leak, which was incredibly dangerous,  
1374       and we were very lucky that there were no explosions with that,  
1375       occurred in California. Near my district we have three large  
1376       natural gas storage facilities, including the MacDonald Island,  
1377       which is 82 billion cubic feet.

1378               So, are the inspections by the California Public Utility  
1379       Commission and the federal authorities for these facilities, and  
1380       the high-pressure transmission pipelines, doing enough to keep  
1381       our communities safe? Are they doing enough?

1382               Mr. Elliott. Congressman, I do believe that the work being  
1383       performed is adequate. I, first, want to say, when I first came  
1384       to PHMSA, it was the discussion of San Bruno and the eight  
1385       fatalities that occurred there, and that Aliso Canyon was the  
1386       worst natural gas release we have ever had in this country. So,  
1387       those resonate very much.

1388               We are so dependent upon the use of our state partners to  
1389       oversee certain operations. And 80 percent of the pipeline  
1390       system in the U.S. today falls to the oversight of our state  
1391       partners. I think, as I said earlier, there is always more we  
1392       can do. We always need to strive to get better. We need to work  
1393       more closely with our state partners to make sure that we are  
1394       being as forward-thinking as possible. But I would have to say  
1395       that, at this point in time, I do think the work is adequate.

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1396 Mr. McNerney. Well, we clearly have our complaints about  
1397 the pace of PHMSA's rulemaking, but are we being too demanding  
1398 about the safety of our constituents? Is that part of the  
1399 problem?

1400 Mr. Elliott. No, I mean, you can never not take into account  
1401 the absolute importance of the safety of your constituents. And  
1402 as I had mentioned earlier, we have every reason to continue to  
1403 focus on improving and completing those mandates, so the safety  
1404 value of those rules can get out and be in place.

1405 Mr. McNerney. What is the holdup in these rulemakings?  
1406 I mean, is industry dragging its feet or you don't have enough  
1407 personnel? Do you need more resources from Congress? I mean,  
1408 what is the holdup here?

1409 Mr. Elliott. As I had mentioned before, I understand it  
1410 is my responsibility, as the Administrator today, to complete  
1411 these mandates, going back to 2011 and 2016, and we work on that  
1412 every day. For most of the mandates that have been brought to  
1413 our attention as being most important, the liquid, the gas, the  
1414 rupture detection valve rule, we have completed our work on those,  
1415 and they are going through the necessary review before they can  
1416 be published as a final rule, except for the rupture and automatic  
1417 valve rule, which is a Notice of Proposed Rulemaking. So,  
1418 granted, we have got a ways to go on that, but it has got the

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1419 greatest attention at PHMSA, sir.

1420 Mr. McNerney. Thank you.

1421 Mr. Russell, I have introduced some good cybersecurity bills  
1422 in Congress and in a number of others in previous Congresses.

1423 Your example of the TSA's criteria for determining pipeline  
1424 facility criticality as a potential for mass casualties or  
1425 significant health effects, it is very concerning that the  
1426 pipeline operators interpret this differently. What more can  
1427 the TSA do to provide more clarity to operators of whether the  
1428 facilities qualify and the additional steps that are necessary  
1429 to make the infrastructure more secure?

1430 Mr. Russell. Thank you for the question. Certainly, TSA  
1431 did update the guidelines in 2018. So, that is a good thing,  
1432 to make them more current. But it is really some of those key  
1433 terms. What does mass casualty mean? How does that translate  
1434 to the area you are operating in? Again, issues around the  
1435 criticality, what exactly does that mean? So, I think either  
1436 a glossary or more specificity around some of those key terms  
1437 is what we are proposing that TSA try to do.

1438 Mr. McNerney. Good. Thank you.

1439 Commissioner Friedeman, how do you deal PHMSA's shortage  
1440 of personnel? Is that a factor affecting your capability to do  
1441 your job?

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1442 Mr. Friedeman. Not that I have been informed from our staff,  
1443 recognizing, however, that there is an assessment on basically  
1444 an operator's proportionate throughput that offsets any shortfall  
1445 relative to funding. So, there is a budgetary opportunity on  
1446 the part of the commission to address some of the issues  
1447 inferentially that you are talking about.

1448 Mr. McNerney. Okay. Thank you.

1449 Mr. Chairman, I yield back.

1450 Mr. Rush. The chair thanks the gentleman.

1451 The chair now recognizes Mr. Johnson of Ohio for 5 minutes.

1452 Mr. Johnson. Thank you, Mr. Chairman.

1453 Mr. Friedeman, welcome today from the great State of Ohio.

1454 We may have covered some of this ground already, but I want to  
1455 dig in a little deeper. I really appreciate you being here to  
1456 discuss how the Public Utilities Commission of Ohio best keeps  
1457 our pipeline systems functioning and safe. Ohio's safety program  
1458 has received the maximum score available, as you know, on PHMSA's  
1459 audits over the last two years, which I think demonstrates how  
1460 seriously PUCO takes pipeline safety.

1461 Now I appreciated that in your testimony you reiterated  
1462 PUCO's mission statement, which focuses on reliability and  
1463 safety, but also affordability. And I am sure each of these  
1464 issues were taken into consideration when Ohio developed its

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1465 accelerated pipeline replacement program.

1466           So, I know Congressman Latta got into this a little bit,  
1467 but can you talk a little bit deeper about the program's importance  
1468 and your commission's replacement program and your commission's  
1469 role to ensure that pipeline rates are adequate and just to allow  
1470 for pipeline replacement and modernization?

1471           Mr. Friedeman. Yes, sir. Thank you for the question.  
1472 Thank you for the comments relative to the PUCO.

1473           As I had indicated previously, the costs associated with  
1474 the investments are obviously socialized across ratepayers. So,  
1475 there is a need to balance, once again, to attempt to achieve  
1476 the equilibrium between benefit and cost. And that is really  
1477 something that is, I think, inherent in the nature of the recovery  
1478 mechanism that we use relative to using a rider, rather than  
1479 waiting for a rate case. So, that enables the commission to  
1480 review on an annual basis.

1481           Mr. Johnson. What are some of the balancing factors? I  
1482 mean, when you talk about your philosophy of balancing quality  
1483 and safety with cost and acceleration, what are some of the factors  
1484 that you use to balance all of that out?

1485           Mr. Friedeman. Well, obviously, one of the key  
1486 considerations is bill impact, recognizing again that  
1487 affordability is a function -- affordability across all

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1488 ratepayers. That is, from the highest perspective, the  
1489 consideration relative to the social costs associated.

1490 In terms of the implementation of the program itself, there  
1491 is a recognition that bare steel cast iron  
1492 non-cathodically-protected infrastructure is subject to  
1493 deterioration over time. So, basically, the staff, in  
1494 conjunction with, in cooperation with the utilities in the State,  
1495 identified pipelines that fall within the bucket targeted for  
1496 replacement. And it was a very methodical approach that was  
1497 started over a decade ago, and I believe that the various utilities  
1498 are at various stages of completion, but that all four of the  
1499 major investor-owned utilities are intending to complete their  
1500 programs by 2033. And to the credit of other utilities, not those  
1501 of the big four, they are beginning to adopt the same process,  
1502 or at least express an interest in doing so, recognizing, I think,  
1503 the benefits to be derived.

1504 Mr. Johnson. Okay. All right. Well, thank you.

1505 Administrator Elliott, as you know, PHMSA's state partners  
1506 oversee more than 80 percent of the nation's pipeline  
1507 infrastructure, especially the gas distribution pipelines that  
1508 connect our homes and businesses to the main transmission system.

1509 Can you talk a little bit about state programs and the methodology  
1510 that PHMSA uses to distribute pipeline safety grants?

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1511           Mr. Elliott. And, Congressman, thank you for the question.  
1512           There are all but two states that participate in the state program  
1513           with PHMSA. Alaska and Hawaii are the two. So, on an annual  
1514           basis, PHMSA will work with the state to receive information about  
1515           their current inspection program, about the goals that they have  
1516           achieved, about the staffing that they have. We take that  
1517           information, and then, we will conduct a review of the state  
1518           program, looking very much at the same information, the adequacy  
1519           of the program. Is staff adequately trained? Are they meeting  
1520           their goals?

1521           And then, with the dollars that are allocated to PHMSA as  
1522           part of our state-based grant, we look at the dollars that the  
1523           state has projected that they have for the state program. Then,  
1524           we add those dollars, and then, factor in the score. And that  
1525           ultimately provides the funding to the state.

1526           It has been mentioned before that, while PHMSA can fund up  
1527           to 80 percent, over the last few years it has hovered more closely  
1528           to about 70 percent. And actually, one of the things that we  
1529           have done -- we recognize the importance of funding the state  
1530           programs. Occasionally, we will get a question about, well, what  
1531           do you do for poor-performing states? And one of the answers  
1532           is we can reduce the amount of funding, but, to me, that is  
1533           counterproductive. Why would you reduce the amount of funding?

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1534       So, we try to keep the funding as robust as possible. But, in  
1535       the last few years, we have actually taken some unused funds at  
1536       PHMSA and moved it over to the state-based program to put in as  
1537       much dollars as we can for the program.

1538               Mr. Johnson. Okay. Well, thank you.

1539               And I apologize for going over, Mr. Chairman. Thanks for  
1540       the indulgence. I yield back.

1541               Mr. Rush. The chair now recognizes Ms. Kuster from New  
1542       Hampshire for 5 minutes.

1543               Ms. Kuster. Thank you, Mr. Chairman.

1544               And thank you to all of you for being with us today.

1545               I want to dive right into an accident that was very close  
1546       to home in the neighboring community. In September of 2018, an  
1547       accidental release of high-pressure gas caused an explosion just  
1548       across the border from my district in Lawrence, Andover, and North  
1549       Andover, Massachusetts, referred to as the Merrimack Valley  
1550       incident. Over 130 structures were damaged as a result of the  
1551       accident. More than 20 individuals were injured and, very sadly,  
1552       one person lost their life.

1553               So, what we have learned is that the tragic accident could  
1554       have been completely avoided. And it is imperative, in my view,  
1555       that Congress work to identify additional safety measures that  
1556       can help prevent these types of accidents. So, I want to address

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1557 Mr. Elliott. My understanding is, in 2011, the Pipeline Safety,  
1558 Regulatory Certainty, and Job Creation Act required the use of  
1559 automatic or remote-controlled shutoff valves on transmission  
1560 pipelines, but, to date, PHMSA has not implemented this mandate,  
1561 despite the NTSB finding that the use of the automatic shutoff  
1562 valves is effective in preventing and reducing the severity of  
1563 pipeline explosions. So, my question is, why has PHMSA not  
1564 implemented this mandate over eight years since this bill was  
1565 signed into law?

1566 Mr. Elliott. Thank you for your question, and we continue  
1567 to feel for the Rondon family and the loss of their loved one  
1568 in the incident up in Massachusetts.

1569 You are correct that the requirement for automatic shutoff  
1570 on transmission lines is part of the rupture detection and valve  
1571 rule. In this case, we were dealing with a gas distribution line.  
1572 And so, the rules didn't necessarily apply there.

1573 But let me just expand what I think needs to be done or what  
1574 we can do there. And I think it is important to say --

1575 Ms. Kuster. And is there any sense of urgency?

1576 Mr. Elliott. Congresswoman, I think there is a significant  
1577 sense of urgency. I think this is a case, too, where the  
1578 importance between PHMSA and the state partners actually works  
1579 as intended. This was, in every sense of the word, a monumental

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1580 failure on the part of the operator. We set the minimum  
1581 standards, federal standards, for pipeline safety. States can,  
1582 and have for many years -- and it has been over 50 years that  
1583 states have been allowed to oversee their intrastate process --  
1584 but the states had the ability where, if it is not in conflict  
1585 with the minimum federal regulations, to apply their own  
1586 regulations to strengthen what the federal government has in  
1587 place. And that is exactly what happened in Massachusetts. If  
1588 you recall, the State legislature included specific language that  
1589 now requires a professional engineer to sign off on the plan,  
1590 in the belief that doing that would have prevented this incident.

1591 The minimum federal requirements are very clear. They  
1592 require qualified individuals and a qualification process at  
1593 every step of the process. So, we believe that the federal  
1594 standards, if they had been adhered to in the Merrimack Valley  
1595 incident, would have prevented this. But this is a good case  
1596 where the State felt they needed to go above and beyond the federal  
1597 standards.

1598 I think, going back to your original question, I think there  
1599 will be a lot further discussion about the importance of automatic  
1600 shutoff valves not just on transmission lines, but on gas  
1601 distribution lines.

1602 Ms. Kuster. So, what is the holdup from instituting this

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1603 requirement?

1604 Mr. Elliott. Right. Well, as I had mentioned before, the  
1605 rupture detection and automatic valve rule is probably one that  
1606 has languished the longest at PHMSA. It is in a Notice of Proposed  
1607 Rulemaking stage. We have finished our work on it. And I have  
1608 committed that we will move that not only into the Notice of  
1609 Proposed Rulemaking, so we can get it out to get public comment,  
1610 but, then, move it to the final rule as quickly as possible.  
1611 It is still on schedule to become a final rule before the end  
1612 of the year.

1613 Ms. Kuster. Can I ask you, do you know what percentage of  
1614 new pipeline infrastructure has automatic shutoff valves? Is  
1615 this accepted technology now and it is being installed?

1616 Mr. Elliott. I do not know specifically, but I can determine  
1617 that, and I will as quickly as possible get back to you with that  
1618 information. But I don't have the specifics of that.

1619 Ms. Kuster. And what is your sense of the timeline for when  
1620 Congress can expect, and the public, the American public, for  
1621 the mandate for the automatic shutoff valve to be implemented?

1622 Mr. Elliott. Well, again, that rule, even though it is in  
1623 a Notice of Proposed Rulemaking stage, we still have it on the  
1624 books to be completed in this year. That may be a bit aggressive,  
1625 but we are going to work as hard as we can at PHMSA to move that

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1626 bill forward.

1627 Ms. Kuster. I appreciate that, and I urge you, the urgency  
1628 of now to protect our constituents. So, thank you.

1629 I yield back.

1630 Mr. Elliott. Thank you, Congresswoman.

1631 Mr. Rush. The chair thanks the gentlelady.

1632 The chair now recognizes the gentleman from Indiana, Mr.  
1633 Bucshon, for 5 minutes.

1634 Mr. Bucshon. Thank you, Mr. Chairman.

1635 I think you can see the bipartisan frustration with delays  
1636 in action from federal agencies. This is, not blaming anyone  
1637 here, but this is kind of a frustration not only in this area,  
1638 but across the board where congressional intent, determined and  
1639 passed into law sometimes decades before, has not been carried  
1640 out. And it is a frustrating problem, and it sounds like you  
1641 are doing the best, Mr. Elliott, at least at PHMSA to resolve  
1642 some of those frustrations.

1643 I also want to say that, just as technology evolves in our  
1644 own personal lives -- you know, no one would go out and buy a  
1645 computer with 20-year-old technology -- we shouldn't be putting  
1646 pipelines in the ground with 20-year-old technology. As Mr.  
1647 Griffith pointed out, there is new technology, including fiber  
1648 optics, that, in my view, if we are putting new pipeline in the

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1649 ground and technology exists, we should find a way to utilize  
1650 that, because we wouldn't buy a computer for ourselves with  
1651 20-year-old technology. It makes no sense. This happens across  
1652 the government, and it is very frustrating. I understand that  
1653 there are stakeholders and there are costs involved in new  
1654 technology, but we need to be more nimble in this process,  
1655 especially as it relates to something as critical as pipeline  
1656 safety,

1657 So, with those opening comments, Mr. Friedeman, I have a  
1658 question. This has been addressed a little bit. But I  
1659 understand over the last several years states have implemented  
1660 mechanisms to accelerate the replacement of pipelines. That is  
1661 a positive thing. In your testimony, you explain how these  
1662 campaigns have helped rapidly modernize Ohio's aging  
1663 infrastructure with over 5,000 miles of distribution main lines  
1664 and more than 1 million service lines being replaced since the  
1665 inception of the program nearly a decade ago.

1666 How do you at the state level balance the need for these  
1667 investments with, ultimately, the cost that is borne by the  
1668 ratepayers? It is a difficult balance, I understand.

1669 Mr. Friedeman. Yes, sir, it is a difficult balance. I  
1670 think it is a qualitative as much as it is a quantitative  
1671 assessment.

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1672 Mr. Bucshon. Yes.

1673 Mr. Friedeman. As I indicated previously, there is a  
1674 sensitivity relative to affordability, an acknowledgment that  
1675 affordability is not a constant across all ratepayers. And then,  
1676 it is very difficult, as you suggest, to assign a quantitative  
1677 value to that. It is a consideration. It is a variable that  
1678 goes into the decisionmaking process. I can't be more specific  
1679 than that. I am sorry, I hope that is responsive --

1680 Mr. Bucshon. No, that is. I mean, it is a difficult process  
1681 as it is in southern Indiana, you know, and the State of Indiana,  
1682 where we have the need for updating pipelines and other  
1683 infrastructure. And then, of course, people like me hear back  
1684 from our constituents about that, and I think sometimes maybe  
1685 we don't, as a society, give as much information about the process  
1686 to everyone, so that people understand. I think most people  
1687 understand, if you have more safe and updated pipelines, that  
1688 may necessitate in the short run, or even in the long run, higher  
1689 rates to cover the capital improvements that have been made.  
1690 And I think sometimes the frustration that I hear is that that  
1691 understanding of that is not projected as well as it could be  
1692 maybe to the ratepayers. And I am sure you guys do a great job  
1693 of trying, doing your best to do that. But I would encourage  
1694 everyone to try to project that to the ratepayers, because we

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1695 hear about it.

1696 We also hear about unfunded mandates from the federal  
1697 government, and specifically, EPA and a number of other agencies  
1698 that are blamed for that. But, many times, again, it is just  
1699 a frustration.

1700 Mr. Russell -- and I have about a minute -- as you know,  
1701 risk-based decisionmaking is the best way to approach complex  
1702 problems like cybersecurity, especially when you are dealing with  
1703 2.7 million miles of pipelines. Is it true that TSA is not  
1704 attempted to understand the relative risk of a safety instant  
1705 among the nation's most critical pipelines? Would you say that  
1706 that is true or not true?

1707 Mr. Russell. I think, for their older risk assessment, the  
1708 one that was done in 2014, one of the observations was not  
1709 factoring in maybe some of the PHMSA safety data that would get  
1710 at the age of a system and how that might affect the system's  
1711 vulnerability. And that is one of the things we would like to  
1712 see them take on.

1713 Mr. Bucshon. Okay, great. And then, the last thing I will  
1714 say is I am still struggling, me personally, to understand why  
1715 the TSA, as the agency of record on some of these things -- and  
1716 I suspect that has happened over time -- but I think someone  
1717 mentioned that maybe we should revisit the jurisdictional issues

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1718 related to pipeline safety as part of our reauthorization. I  
1719 just want to throw that out there.

1720 Thank you. I yield back.

1721 Mr. Doyle. [Presiding] The gentleman's time has expired.

1722 The chair recognizes Mr. O'Halleran for 5 minutes.

1723 Mr. O'Halleran. Thank you, Chairman and Ranking Member,  
1724 and to all our witnesses before us today for joining our  
1725 conversation on how Congress can ensure the pipelines of today  
1726 do not harm our citizens, our economy, and environment of  
1727 tomorrow.

1728 I believe Congress has a duty to legislate; the agencies  
1729 have a duty to carry out the laws and implement regulations in  
1730 the spirit of the statute. In this vein, Mr. Chairman, it is  
1731 my hope that we, as a committee, can continue working in a  
1732 bipartisan fashion, as we have in the past, to reauthorize the  
1733 Pipeline and Hazardous Materials Safety Administration's  
1734 pipeline safety program.

1735 Administrator Elliott, I thank you for appearing before our  
1736 committee today to provide perspective regarding pipeline safety  
1737 issues. However, given TSA's role overseeing their pipeline  
1738 security program, and with the growing threat of cyberattacks  
1739 facing our nation, I find it troubling that TSA neglected to send  
1740 a representative to appear before us in this vein. Hiding from

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1741 the GAO report's negative findings is not the way to do this.  
1742 Sooner or later, the TSA will have to let the American people  
1743 know why they have not met their duty. And I just, having been  
1744 involved in public safety in the past, I just can't imagine why  
1745 this type of process is not addressed in an appropriate way.

1746 Administrator Elliott, I appreciate the diligent,  
1747 behind-the-scenes consultation you described in your testimony  
1748 before our agency issues a rulemaking. However, since you became  
1749 Administrator, which specific new actions and processes have you  
1750 put into place to ensure these rulemakings are done in a timely  
1751 fashion?

1752 Mr. Elliott. Well, Congressman, thank you for the question,  
1753 and especially with regards to security. I think Ranking Member  
1754 Upton said it best. At PHMSA, we understand you can't separate  
1755 safety and security, and even though we have the safety function,  
1756 the professional men and women of PHMSA that are out doing the  
1757 inspections, I think it is worth mentioning, also are trying to,  
1758 where they can, identify security concerns and convey that back  
1759 to the industry and our colleagues at TSA.

1760 With regards to what we are doing to try and expedite the  
1761 rulemaking process, besides focusing on the sheer importance of  
1762 moving the mandates, which I can guarantee we focus on every day,  
1763 one of the things we have done that may have had, or will have,

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1764 the best outcome is, you know, PHMSA really is two modal  
1765 administrations in one. And we have actually just started to  
1766 complete the work of basically bringing all the rulemaking  
1767 activities into one single entity within PHMSA. And that's going  
1768 to allow us to be more agile, more responsive to rulemakings,  
1769 both on the pipeline and the hazardous material surface  
1770 transportation side. It basically gives us the same ability to  
1771 bring new resources together to form a single entity that is going  
1772 to allow us to do work quicker and more efficiently, and again,  
1773 as we say, flex more, depending on where the regulatory need is  
1774 going to be. So, that is probably the most important thing we  
1775 have done, other than focusing on mandates each and every day,  
1776 sir.

1777 Mr. O'Halleran. I thank you.

1778 Section 30, Mr. Elliott, of the 2011 Pipeline Safety Act  
1779 requires development of protocols to consult with Indian tribes  
1780 that have hazardous material pipelines within their jurisdiction,  
1781 and we know many of them do. How would you describe the agency's  
1782 protocols to work with tribes on a pipeline near a reservation  
1783 boundary and with the spill response zone entirely within the  
1784 reservation?

1785 Mr. Elliott. Congressman, thank you for the question.  
1786 Actually, I think it is good, and I will explain why. It was

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1787 last year, in 2018, that one of the senior field members of the  
1788 pipeline team actually prepared a protocol that sets out how we  
1789 are going to communicate with tribal authorities before we go  
1790 in to do inspections, typically, with oil and gas operators.  
1791 That is kind of independent of what the operators do, but we feel  
1792 that it is absolutely necessary to make sure that we provide the  
1793 communications, and more importantly, the respect to the tribal  
1794 leadership about the pipelines that operate underground within  
1795 their territories. But I think, more importantly, to also create  
1796 a stronger link between the tribal leadership and the PHMSA  
1797 representatives, so they know who to call.

1798 Mr. O'Halleran. Thank you, Mr. Elliott.

1799 Mr. Chairman, as a citizen -- forget the fact that we are  
1800 here in Congress -- but, just as a citizen, it really perturbs  
1801 me that an agency of government does not appear before the  
1802 oversight committee.

1803 Thank you very much.

1804 Mr. Doyle. The gentleman yields back.

1805 I think both sides of the aisle and this entire committee  
1806 shares your thoughts on that.

1807 The chair now recognizes Mr. Walberg for 5 minutes.

1808 Mr. Walberg. Thank you, Mr. Chairman.

1809 And thanks to the panel for being here.

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1810 Administrator Elliott, thank you for being here, and thank  
1811 you wearing that amazing blue tie. With a Buckeye at the other  
1812 end of the table, we appreciate a Wolverine representation there.

1813 [Laughter.]

1814 I don't know if anybody else noticed, but I did. And after  
1815 the 10 years football drought we have had, we will take anything.

1816 Mr. Elliott, as you know, one of the challenges for states  
1817 in colder climates like Michigan is inspecting pipelines for  
1818 potential cracks, leaks, and not having to shut off or disrupt  
1819 gas flow, especially in winters like last winter with the polar  
1820 vortex that we experienced. That is why I am excited about the  
1821 development of new technologies like robotic smart pigs for  
1822 in-line inspections that could be used to help make pipelines  
1823 safer. Other developments in recent years include drones for  
1824 mapping and detecting leaks, software solutions to help analyze  
1825 pipelines, and, as Mr. Griffith mentioned, fiberoptic cable  
1826 technologies.

1827 My question is, how does PHMSA work with operators or other  
1828 technology innovators to develop and identify potential  
1829 technologies for further attention in its regulatory processes?

1830 And secondly, what could Congress do to help drive innovation  
1831 and foster an environment where operators can incorporate new  
1832 technologies and best practices?

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1833 Mr. Elliott. Well, Congressman, thank you for the question.  
1834 With regards to my tie, while it is not the beloved cream and  
1835 crimson of my Hoosiers, at least it is Big 10 colors.

1836 Mr. Walberg. Thank you.

1837 Mr. Elliott. You are welcome.

1838 With regards to how we can continue to foster accelerated  
1839 growth in technologies, especially technologies that provide  
1840 greater safety, as I mentioned earlier, I think there are two  
1841 important ways to do that. One is the absolute responsibility  
1842 of PHMSA, and not only me, but the staff -- I get the opportunity  
1843 to talk to a lot of oil and gas executives, and it is probably  
1844 one of the first points that I always make about the importance  
1845 of safety technology and how we need to continue to invest, again,  
1846 not so much in safe R&D, but, basically, some of the step-change  
1847 safety that will help, I think, get us this next level of safety.

1848 But I think the second part is from the congressional point  
1849 of view. I think, again, have this great thirst to understand,  
1850 I mean to ask industry to come in and be very specific about their  
1851 paths to more aggressive implementation of this safety  
1852 technology.

1853 I came from the railroad industry where we have seen  
1854 tremendous improvements in technology and R&D, all designed to  
1855 eliminate causes of incidents that will create catastrophic

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1856 incidents, rail incidents. And I have seen the same thing in  
1857 the pipeline incident.

1858 But I think the one thing that is missing is the ability  
1859 to communicate that effectively to those people, both on the  
1860 regulatory side as well as the congressional side, to fully  
1861 understand what is going on, and then, to provide good  
1862 recommendations about how all that good work can be --

1863 Mr. Walberg. How the program is helpful?

1864 Mr. Elliott. Yes.

1865 Mr. Walberg. Thank you.

1866 Mr. Friedeman, as we have heard today, while PHMSA still  
1867 has mandates for the 2011 reauthorization unfinished, they have  
1868 made the most of the resources they have to bring these complex  
1869 technical rulemakings close to the finish line. However, as you  
1870 noted in your testimony, states can play an important role in  
1871 taking some of the burden off of PHMSA by assuming safety authority  
1872 over interstate gas pipelines. Like Ohio, Michigan is one of  
1873 only eight states that act as interstate agents and perform  
1874 inspections. Can you describe how your relationship with PHMSA  
1875 has impacted the overall safety and integrity of Ohio's pipeline  
1876 system?

1877 Mr. Friedeman. In my discussions with the safety team at  
1878 the commission, once again, anecdotally, that relationship I

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1879 think is perceived by staff to be very productive, to be  
1880 mutually-respectful. And I believe there is, in becoming an  
1881 interstate agent, an assumption of responsibility and an  
1882 acknowledgment of the responsibility to promote the welfare of  
1883 the citizens of Ohio. I would commend the State of Michigan for  
1884 doing the same. I would believe that there is that same  
1885 assumption of responsibility and acknowledgment at play there.

1886 I think, given the activities within the State of Ohio that  
1887 I, hopefully, described today, you can appreciate the sheer  
1888 magnitude of pipeline activity nationally. I mean, it is  
1889 absolutely remarkable. There are in excess of 2 million miles  
1890 of distribution, transmission, and gathering lines.

1891 In order to accept the charge of a regulator or  
1892 responsibility of a regulatory to promote general welfare and  
1893 the delivery of adequate and reliable service, and safe service,  
1894 I think the magnitude underscores the compelling need of the  
1895 parties to act in a cooperative and coordinated fashion. Again,  
1896 I believe that the relationship between PUCO and PHMSA is a clear  
1897 demonstration of what can be accomplished through that  
1898 coordination.

1899 Mr. Walberg. Okay. Thank you.

1900 I yield back.

1901 Mr. Rush. [Presiding] The chair now recognizes the

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1902 gentleman from North Carolina, Mr. Butterfield, for 5 minutes.

1903 Mr. Butterfield. Thank you very much, Chairman Rush.

1904 Thank you for holding today's hearing.

1905 This topic is a very timely one for my district, as two people  
1906 tragically lost their lives, and others were seriously injured,  
1907 as a result of an explosion originating from a natural gas line  
1908 in Durham, North Carolina, that occurred on the morning of April  
1909 10th of this year. I just received a news break just a few moments  
1910 ago that there is yet another gas leak in the 500 block of Duke  
1911 Street there in Durham. We don't know the extent of it. The  
1912 news reports are that no one has been injured, and that is a good  
1913 report.

1914 But, Mr. Chairman, the explosion in Durham demonstrates just  
1915 how important the safety and security of our pipelines are and  
1916 how the work of this subcommittee to reauthorize the federal  
1917 pipeline safety program is critically important.

1918 And let me thank the three witnesses. But I will first  
1919 address this question to the Administrator. Do you have any  
1920 knowledge of the Durham explosion that I made reference to a moment  
1921 ago?

1922 Mr. Elliott. Congressman, yes, I do.

1923 Mr. Butterfield. Can you elaborate on it for me, if you  
1924 could?

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1925           Mr. Elliott.   Congressman, we were saddened to learn of the  
1926 second loss of life from this incident.

1927           When incidents occur -- and we are very thankful that in  
1928 the State of North of Carolina we have a very good pipeline partner  
1929 -- but what we typically do anytime that there is a fatality,  
1930 serious injury, or significant evacuations, we will dispatch  
1931 members of our Pipeline Accident Investigation Division to go  
1932 in and assist the state.   And I need to underscore that, assist  
1933 the state, because they have the predominant oversight.

1934           We know that, when we arrived, it was still kind of being  
1935 treated as a fire scene and that other agencies were there as  
1936 well.   We worked with our state partners, and I do know that one  
1937 of the problems in helping, that has prohibited us from basically  
1938 understanding the specific point of damage with the distribution  
1939 line is the damage to the building and the asbestos-containing  
1940 material and the debris.   So, they have actually had to do an  
1941 asbestos cleanup.

1942           We know that they are getting close to being able to do the  
1943 excavation of the actual distribution line that was hit by the  
1944 boring machine.   Our accident investigation team will be there  
1945 again to assist the State.   And then, once that area is uncovered,  
1946 then that piece of pipe will go to, typically, go to a laboratory  
1947 for analysis.   So, we will continue to work with the State to

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1948 assist in the investigation in any way we can.

1949 Mr. Butterfield. But, based on your investigation thus far,  
1950 do you believe that there could have been anything done to avoid  
1951 this explosion?

1952 Mr. Elliott. Well, you know, this was a case where the  
1953 excavation putting in the fiber optics had done the one call.

1954 The lines had been marked. But I think one of the determinations  
1955 we are going to have to make is whether or not this was an area  
1956 where the operator would have been required to do an excavation,  
1957 to hand dig, and look to make sure that the directional boring  
1958 didn't strike the distribution line. So, I think we will know  
1959 more after the investigation is complete, Congressman.

1960 Mr. Butterfield. Thank you.

1961 Mr. Chairman, I yield to my friend from Iowa, if he wants  
1962 to consume some of my time. If not, I will yield back.

1963 Mr. Loeb sack. Go ahead.

1964 Mr. Butterfield. I yield back. Thank you.

1965 Mr. Rush. The chair recognizes Mr. Olson for 5 minutes.

1966 Mr. Olson. I thank the chair for holding this very important  
1967 hearing to Texas 22.

1968 And welcome, to our three panelists, to the first panel.

1969 My first question is for Administrator Elliott. As you  
1970 might know, I represent one of the fastest-growing communities

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1971 in the country. Our pop base in Texas 22 is booming. In some  
1972 areas, we have thousands and thousands of families who are living  
1973 on a land that used to be rice, sugarcane farms, and cattle  
1974 operations. That has made big changes for flood control, like  
1975 Hurricane Harvey, but it has also put a challenge on pipeline  
1976 safety. Clearly, there are pipelines all across Texas that used  
1977 to be under wide-open spaces that are now under families' feet  
1978 and schools. My district has that problem, that situation, over  
1979 and over and over.

1980 I would like to ask you about how inspections and,  
1981 quote/unquote, "class location rules" change as land above  
1982 pipelines changes. Am I correct that there has been a rule in  
1983 the works since 2013? And will you work closely with Congress  
1984 to make sure you all are taking it seriously?

1985 Mr. Elliott. So, Congressman, thank you for the question.  
1986 With regards to how class location evolves with the increase  
1987 of population, as you know, there are several class locations.  
1988 And as new growth occurs near a pipeline, then there are certain  
1989 restrictions, and it is the responsibility of the operator to  
1990 determine that growth. Are there now buildings and populations?  
1991 And then, they have the responsibility to do several things.  
1992 One of them is to reduce the pressure of the pipeline that is  
1993 now going through this high-consequence area, part of the class

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1994 location.

1995 Mr. Olson. One question for you on your workforce. At  
1996 breakfast this morning with a lead in the energy operations,  
1997 somebody in touch with the pipeline industry. And they are  
1998 concerned because they admitted they poach your people. Your  
1999 people, our best and brightest, they can pay them a lot more than  
2000 you can pay them.

2001 Mr. Doyle and I have a bill that addresses this for FERC  
2002 by addressing them to have higher pay than the normal federal  
2003 level. Would that be something you would like to have? Have  
2004 a little weapon to keep them? Because, again, they admitted these  
2005 are great people; we want them in our employ; and so, we are  
2006 poaching off of PHMSA.

2007 Mr. Elliott. Well, certainly we are in competition with  
2008 industry. And when we do hire pipeline inspectors who typically  
2009 have engineering degrees, and after we put them through some of  
2010 the best possible training, they even become more marketable to  
2011 industry folks. So, we are always looking at ways, Congressman,  
2012 to find new sources of recruiting. I mentioned a little earlier,  
2013 our HR Director has actually been tasked to go into colleges and  
2014 universities that have engineering programs and, basically, do  
2015 a better job of selling the safety mission of PHMSA, because I  
2016 think that is attractive to a lot of folks.

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2017           We continue to look at ways to incentivize individuals that  
2018 want to come to work for PHMSA. One of the most alarming things  
2019 to me, for example, we had 10 job offers out for pipeline  
2020 engineers. Sixty percent turned that offer down for various  
2021 reasons. Many of those are actually because they had better  
2022 offers elsewhere.

2023           So, I guess that is a long way of saying we probably would  
2024 encourage any help we could get to better incentivize pipeline  
2025 --

2026           Mr. Olson. So, it would be okay with more money, not the  
2027 restrictions that are placed right now, something like the SEC  
2028 has to regulate securities and exchange. Would you be okay with  
2029 more money to pay these people?

2030           Mr. Elliott. I would be happy to see that, but I will work  
2031 with whatever tools I have.

2032           Mr. Olson. Yes, sir, that is our toolbox to give you.

2033           The last questions is, Commissioner Friedeman of Ohio, as  
2034 Texas 22 grows, we know that a lot of new pipe is being built,  
2035 especially for local distribution lines. You described in your  
2036 testimony how one phase is replacing older existing lines. Can  
2037 you talk about how pipeline technology has changed in recent years  
2038 and what this means for safety and spill prevention?

2039           Mr. Friedeman. I think inherent in the replacement program

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2040 is that, first of all, it is an inevitably long duration because  
2041 of the scope of the activity required. And the natural  
2042 consequence of that is technological advancement as the program  
2043 evolves. An illustration of that would be the composite material  
2044 in plastic. So, there is a certain remedial nature when you have  
2045 an accelerated main replacement program that identifies pockets  
2046 and susceptibility. When you replace old infrastructure with  
2047 new infrastructure, not only are you mitigating the risk  
2048 associated with leakage, but what you are doing is replacing it  
2049 with technologically-improved composite material at the time,  
2050 which should, then, extend the useful life beyond that which was  
2051 historical. So, there is just an inherent benefit to a  
2052 well-coordinated program.

2053 Mr. Veasey. [Presiding] I thank you.

2054 I yield myself 5 minutes.

2055 Mr. Elliott, I wanted to ask you, in your testimony you  
2056 reiterated that, "The mission of PHMSA is to protect people and  
2057 the environment by advancing the safe transportation of energy  
2058 products and other hazardous materials that are essential to our  
2059 daily lives." And most of the time, we do pretty well at achieving  
2060 this mission, but incidents are too frequent, and everybody knows  
2061 that we have to do better.

2062 Last year, February the 23rd, Linda Rogers was just 12 years

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2063 old when she was killed by a natural gas leak and an explosion  
2064 in her family's home in the district that I represent in Dallas.  
2065 And we know the difference between transmission and distribution  
2066 of natural gas, and the different approaches to safety that are  
2067 obviously required for each of those. But, after this explosion,  
2068 more than 300 nearby homes were evacuated due to the quantity  
2069 and severity of the natural gas leaks discovered in the  
2070 residential neighborhood, and reports show that more than 2 dozen  
2071 homes across the north Texas and central Texas area have blown  
2072 up since 2006 because of leaking from natural gas pipelines.  
2073 And tragically, nine people have died and at least 22 others have  
2074 been injured badly.

2075 I appreciate you making clear in your testimony that  
2076 completing the hazardous liquid rule, which includes installing  
2077 a leak detection system, is one of your highest priorities. Do  
2078 I have your commitment on making leak detection systems a priority  
2079 in this rule?

2080 Mr. Elliott. Yes.

2081 Mr. Veasey. Beyond a rulemaking effort, there are recent  
2082 pipeline industry-recommended practices addressing pipeline  
2083 safety systems, leak detection, and integrity management systems  
2084 that have been developed by the American Petroleum Institute in  
2085 response to recent disasters. What are you doing to incorporate

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2086 industry-recommended practices into your regular scheme?

2087 Mr. Elliott. Congressman, thank you for the question. And  
2088 we are very aware of the tragic incident in Dallas with Atmos  
2089 Energy. And, similarly, we had sent inspectors and investigators  
2090 to work with the Texas Railroad Commission. We continue to work  
2091 with them on some of the ongoing concerns.

2092 But we will, with regards to the mandates, we will continue  
2093 to work to complete those that will bring the greatest safety  
2094 value to not only protecting people, as you said, as well as the  
2095 environment.

2096 Mr. Veasey. Do you have any programs or efforts to collect  
2097 and promote industry best practices?

2098 Mr. Elliott. And again, yes, and to that, we regularly will  
2099 look at industry standards that have been in practice for a while  
2100 that have shown tangible safety benefits. And we will, then,  
2101 through incorporation, make those regulations. We have several  
2102 of those that we are working on now, working on the language,  
2103 and several of those deal with pipeline safety.

2104 Mr. Veasey. Thank you.

2105 And just kind of switching gears, I wanted to ask, as you  
2106 know, in today's pipeline technology, we have a lot of technology  
2107 that is being used for leak detection, different things like that,  
2108 to make sure that the transmission of natural gas is being done

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2109 safely. What is being done, because we have talked a lot about  
2110 it on the grid, but you don't hear it a lot as it relates to  
2111 pipelines, like hacking, the technology actually being  
2112 compromised as it relates to transmission of natural gas through  
2113 pipelines?

2114 Mr. Elliott. Well, I think, as some of the discussion today  
2115 has pointed out, you cannot separate safety and security. And  
2116 while we work every day to improve safety, we understand we also  
2117 have a responsibility, where we can, to help improve security.

2118 And one of those areas, actually, that is ongoing now is we are  
2119 trying to understand, Congressman, how we can go into major  
2120 pipeline control rooms that control these operations, some of  
2121 them many thousands of miles in length, and perhaps be a little  
2122 better armed to ask the pipeline control room operators questions  
2123 about their SCADA security systems. Are they adhering to best  
2124 practices within the cybersecurity realm? Again, we don't  
2125 profess to be the security organization, but I think we can  
2126 probably do a better job of ensuring that we ask the right  
2127 questions to help understand that they are, in fact, doing that.

2128 Mr. Veasey. Do you feel that the people that are actually  
2129 providing the technology, the technology that is being provided  
2130 to the pipelines, that those companies are being vetted enough  
2131 and that whatever they are providing to these pipelines is secure

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2132 enough to make sure that any sort of hacking isn't taking place,  
2133 and that those companies aren't somehow complicit with that?

2134 Mr. Elliott. Yes, it is certainly outside of my real area  
2135 of expertise, but I can tell you, again, I fall back on my railroad  
2136 experience, because we had the same issue with dispatching of  
2137 trains and the concerns about cybersecurity and positive train  
2138 control.

2139 And I will tell you, I have every reason to believe that  
2140 the vetting of companies that are involved in providing that kind  
2141 of SCADA system, cybersecurity link -- I have no reason to believe  
2142 that the oil and gas industry do not adequately vet those  
2143 companies.

2144 Mr. Veasey. Thank you very much. I appreciate you.

2145 Now I yield 5 minutes to the gentleman from North Carolina,  
2146 Mr. Hudson.

2147 Mr. Hudson. Thank you, Mr. Chairman.

2148 Mr. Elliott, good to see you again. Thank you for being  
2149 here with us today to examine ways to increase the safety of our  
2150 constituents and all Americans.

2151 While pipelines are the safest means of energy  
2152 transportation, unfortunately, there are from time to time  
2153 instances of failure. In these moments, it is critical our first  
2154 responders are trained and prepared to handle these dangerous

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2155 situations. Back home in North Carolina, some local and small  
2156 fire stations don't have the budget to send their first responders  
2157 to specific emergency pipeline safety. Last year, we had over  
2158 70 emergency responders take free online classes to receive  
2159 pipeline emergency response training.

2160 By using technology, we are creating safer communities.  
2161 In recent years, technology has been developed to internally scan  
2162 pipelines to find issues and detect leaks before they become a  
2163 problem. I know a lot of the questions today have surrounded  
2164 technology, but do you want to just, more generally, add more  
2165 detail to what PHMSA is doing to encourage pipeline operators  
2166 to continue innovating and incorporating the most cutting-edge  
2167 technologies and best practices?

2168 Mr. Elliott. Congressman, thank you for your question.  
2169 And the first part of the discussion, I don't think we can ever  
2170 do enough, especially in rural areas with volunteer fire service  
2171 companies, to do enough in industry, whatever it may be, to train  
2172 our emergency responders enough. We did that religiously in the  
2173 rail industry, and I know the pipeline industry has similar  
2174 practices. But that is something I totally support.

2175 Again, I go back to the topic about technology and  
2176 innovation, I guess my one area -- and I don't necessarily consider  
2177 it a concern, but I think it is where we have to focus more --

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2178 that is through the oil and gas pipeline industry. It is, again,  
2179 to move away from what I consider to be safe R&D and to move into  
2180 some of the more research and development work that will deliver  
2181 further safety enhancements.

2182 You know, we have talked about, and I very rarely anymore  
2183 talk about the fact that the pipeline industry has a rate of 99.997  
2184 percent safety. Having come from a heavily-regulated industry,  
2185 I am of the belief that we are not necessarily going to be able  
2186 to regulate that last little bit of safety. It is going to come  
2187 through adherence to certain regulatory items like integrity  
2188 management, I think adherence to very comprehensive safety  
2189 management systems that are less driven by regulations, but more  
2190 by the safety culture of the company. And I think continuing  
2191 to drive and invest more in technology and R&D, again, that is  
2192 more step change than some of the traditional in-line inspection  
2193 R&D that is going on today. I think that is where we can have  
2194 some of the best investments and advancements in safety.

2195 Mr. Hudson. I agree with you on that. Would you support  
2196 a pilot program or an alternative process that would allow PHMSA  
2197 to work more closely with pipeline operators on some of this newer,  
2198 safer technology?

2199 Mr. Elliott. Absolutely. I mean, one of the criticisms  
2200 that we have heard, rightfully so, from industry is we are too

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2201 slow in allowing new safety technology to come to pass. As I  
2202 have mentioned, we have to be absolutely sure that this new  
2203 technology does, in fact, deliver not only the ability to extend  
2204 the life of the infrastructure and to be a surrogate for physical  
2205 inspection, but it has to deliver safety value. And sometimes  
2206 it takes us a little longer to understand that. I think our  
2207 special permit process is good, but I think there are ways we  
2208 can improve the ability to move good technology into the  
2209 application process faster than we are able to do it today.

2210 Mr. Hudson. Appreciate that.

2211 Do you have any recommendations for Congress on ways to  
2212 encourage more early-stage R&D to supplement the work that PHMSA  
2213 is doing today?

2214 Mr. Elliott. I mean, I do the best I can, so I will take  
2215 whatever encouragement Congress can offer to provide greater  
2216 investment and focus on R&D.

2217 Mr. Hudson. Well, I would just ask that maybe take that  
2218 back and think about it. We would appreciate any advice that  
2219 you have for ways we can partner with you, because I think we  
2220 all agree, both sides of the aisle, we want these innovative  
2221 technologies. We want to continue to move in the direction that  
2222 you are describing where we continue to be on the cutting edge  
2223 of safety and move as quickly as possible to keep our communities

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2224 safe. So, if you would take that back as homework, and we would  
2225 love to have any feedback you might bring back to us.

2226 Mr. Elliott. That is the kind of homework I appreciate.

2227 Thank you.

2228 Mr. Hudson. Okay. Thank you.

2229 And with that, Mr. Chairman, I will yield back.

2230 Mr. Veasey. Thank you, Mr. Hudson.

2231 And now, I yield 5 minutes to the gentlelady from California,

2232 Ms. Barragan.

2233 Ms. Barragan. Thank you.

2234 Thank you for being here today, gentlemen.

2235 Are any of you familiar with the 2015 oil spill in Santa  
2236 Barbara? Yes, Mr. Elliott?

2237 Mr. Elliott. Yes.

2238 Ms. Barragan. This was the Refugio State Beach spill.

2239 Mr. Elliott. Yes, the Plains issue?

2240 Ms. Barragan. All American Plains. Can you tell me how  
2241 something like this happens and where the pipeline safety program  
2242 that PHMSA, where do they fall into the picture of this spill?

2243 Mr. Elliott. Well, Congressman, thank you for the question.

2244 And undeniably, this was a significant impact. Matter of fact,  
2245 I just sat through a briefing that NOAA provided last week that  
2246 actually showed kind of the impact from the point of origin, where

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2247 the oil came underneath the highway and down the embankment, and  
2248 then, out into the coast.

2249 I do have to preface my remarks by saying, as you know, it  
2250 is currently being litigated in the Department of Justice and  
2251 involved in others. But I will tell you this: that from the  
2252 PHMSA point of view, we really see this as a case where our  
2253 integrity management rules and the responsibilities of this  
2254 operator were not adhered to, and were not adhered to in a pretty  
2255 significant way.

2256 Ms. Barragan. Well, there were multiple violations, right?  
2257 And they weren't fixing what had to be fixed, isn't that right?

2258 Mr. Elliott. That is generally correct, yes.

2259 Ms. Barragan. How are the American people supposed to trust  
2260 pipeline companies who can't do the right thing, and then, end  
2261 up having a spill where you have the California coastline, just  
2262 marine life, people, economy, and a huge impact? How are the  
2263 American people supposed to trust when a company tells us day-in  
2264 and day-out, hey, we are going to come in; we are going to put  
2265 this in; it is going to be safe; nothing is going to happen?

2266 We hear the statistics on how safe it is. And then, you  
2267 see these examples where there are constant violations and they  
2268 are not doing the right thing. People start asking, where is  
2269 the oversight on this? I think it is hard for the American people

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2270 to trust these pipeline companies. And it is hard as well when  
2271 you hear that, since that time, there hasn't been a lot done,  
2272 and there have been all these delays that are happening.

2273 And so, when you think about the President trying to open  
2274 up new California coastline, and the coastline in general, to  
2275 drilling, it is a huge concern, rightfully speaking, after you  
2276 take a look at what has happened.

2277 Let me ask, the Trump administration's requested budget for  
2278 PHMSA is roughly 8 percent less in 2020 than it was in 2019.  
2279 How will that impact the pipeline safety program, and does it  
2280 open us up to have more incidences of what happened in Santa  
2281 Barbara, if we are putting less money into it than more?

2282 Mr. Elliott. Well, thank you for that question, very  
2283 important points. I want to comment about what needs to be done  
2284 for operators that don't follow the requirements. I think it  
2285 is true in any case, and at least from my experience in a year  
2286 and a half at PHMSA, that there is a spectrum. There are some  
2287 extremely good, conscientious operators, and we are very thankful  
2288 that they are there. And I understand the issue of public trust.

2289 All it takes is one operator to kind of dispel that trust.

2290 I think here, anyway, the process is working probably as  
2291 it should, in that there were a number of parties to the  
2292 investigation against Plains, and even criminal investigation

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2293 and penalty. And again, I can't really get into it, but some  
2294 discussion is ongoing about what the impact will be to Plains  
2295 with regards to a settlement.

2296 But in regards to --

2297 Ms. Barragan. The budget cuts. Is the 8 percent budget  
2298 cut going to make it more likely, less likely -- I mean, how is  
2299 it going to impact the pipeline safety program?

2300 Mr. Elliott. You know, I worked in my prior career to make  
2301 sure that every dollar we have is effective in allowing us to  
2302 conduct our safety mission. And I really see that we are able  
2303 to do that at PHMSA. It is --

2304 Ms. Barragan. Mr. Elliott, I only have 10 seconds left.  
2305 Is an 8 percent cut in the budget going to help safety and the  
2306 pipeline safety program, yes or no? Is it going to help it?

2307 Mr. Elliott. So, I will make sure that there is no  
2308 degradation in PHMSA's ability to conduct its safety mission with  
2309 the dollars that are provided to us, whatever that may be.

2310 Ms. Barragan. Well, I don't have a lot of confidence in  
2311 that, but thank you for responding.

2312 Mr. Elliott. I understand.

2313 Ms. Barragan. I yield back.

2314 Mr. Veasey. Thank you.

2315 And now, I would yield 5 minutes to the gentlelady from

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2316 Washington, Ms. McMorris Rodgers.

2317 Mrs. Rodgers. Thank you. I thank the chairman for the  
2318 time.

2319 And I appreciate all the witnesses being here. I think it  
2320 has been a really important discussion, a discussion both on  
2321 current standards and regulations and how we are doing as far  
2322 as meeting those standards, but also looking at how do we do this  
2323 in a smarter way, and embracing innovation and technology and  
2324 the solutions that are before us. Because we all want to make  
2325 sure that we are keeping our communities safe and our shorelines  
2326 safe from these kinds of situations.

2327 I wanted to ask, Mr. Elliott, I just wanted to ask, coming  
2328 from a rural area, I wanted to dig a little deeper into how do  
2329 you approach pipelines in highly-populated areas versus the rural  
2330 areas, where there is less people and development. And we have  
2331 class location requirements for pipelines located in areas where  
2332 we have seen recent population growth. I just wanted to hear  
2333 a little bit more about how do you go about the rural versus the  
2334 more populated. And my colleague here from Texas talked about  
2335 his growing area, too.

2336 Mr. Elliott. Well, thank you for the question. And  
2337 certainly, there is an important dichotomy between oil and gas  
2338 pipelines in populated versus rural areas. I really believe that

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2339 it falls back to the absolute importance of adherence to the  
2340 pipeline and safety, the Pipeline and Hazardous Materials Safety  
2341 Administration's integrity management rules that require  
2342 pipeline operators to have an absolute adequate understanding  
2343 of all the operations within their network, whether or not it  
2344 is a high-consequence area or a rural area, to make sure that  
2345 that line is operating in as safe a fashion as possible, and that  
2346 they are doing the appropriate inspections to ensure that any  
2347 concerns that might be due to weld issues or lack of cathodic  
2348 protection or corrosion are found and addressed long before they  
2349 are ever an impact. And I think that our integrity management  
2350 rules have been extremely effective over the years in making sure  
2351 in holding operators accountable for understanding the health  
2352 of their pipeline throughout their network, regardless of whether  
2353 or not it is rural or high populated.

2354 Mrs. Rodgers. And would you also speak just to, what are  
2355 the procedures that you have in place to determine the risk?  
2356 Because whether it is rural or a growing area, or what happened  
2357 on the California coast, what are the procedures that are in place  
2358 to address the --

2359 Mr. Elliott. Again, that all, for the most part, falls back  
2360 to the operator and the application of their integrity management  
2361 system. But one of the items that we do at PHMSA, I mean, we

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2362 do our own risk assessment to make sure that we adequately work  
2363 with operators to do inspections of gas and oil pipeline systems,  
2364 both in rural and high-density areas. Again, with limited  
2365 resources, we use kind of a risk analysis. We look at the past  
2366 history of the operator. We look at past incidents of problems  
2367 with that pipeline. That helps us set our inspection process  
2368 to look at these lines.

2369 Mrs. Rodgers. Would you update me on the review? I  
2370 understand there has been a review underway since 2013 on the  
2371 class location requirements.

2372 Mr. Elliott. So, the class location rulemaking that we are  
2373 working on, we put out an Advance Notice of Proposed Rulemaking  
2374 to seek comment about whether or not industry could use certain  
2375 integrity management tools in lieu of having to take additional  
2376 steps in the higher-level class locations, the high-density  
2377 areas. In other words, can some of this technology and  
2378 sophisticated in-line inspection capability replace the ability  
2379 to have to reduce certain pipeline pressures?

2380 And I think it was mentioned earlier, and rightfully so,  
2381 I mean, some of the growth is basically expanding so rapidly that  
2382 it is difficult to basically take some of the steps that are  
2383 currently part of the class location program. So, we are working  
2384 through a Notice of Proposed Rulemaking that will help us

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2385 understand more fully can we somehow apply additional integrity  
2386 management inspection process to higher class locations as we  
2387 see population growth.

2388 Mrs. Rodgers. Okay. I had one more question, and this was  
2389 to Mr. Russell, but I, too, am frustrated that TSA is not here.

2390 And I guess I will ask this final question on the record.

2391 Thank you very much. I have run out of time. I yield back.

2392 Mr. Veasey. Are there any more questions?

2393 If not, that concludes our first panel. I would like to  
2394 thank our witnesses for joining us today to testify on this very  
2395 important issue.

2396 And at this time, I ask staff to prepare the witness table  
2397 such that we may begin our second panel shortly.

2398 Thank you. Thank you, Participants.

2399 Mr. Veasey. We will now hear from a second panel of private  
2400 sector stakeholders. Those witnesses including Mr. Carl Weimer,  
2401 executive director for Pipeline Safety Trust, Mr. Andrew Black,  
2402 president and CEO of Association of Pipelines, and Ms. Christina  
2403 Sames -- Ms. Christina Sames, vice president, operation and  
2404 engineering services, American Gas Association.

2405 We want to thank our witnesses for joining us today. We  
2406 look forward to your testimony and at this time the chair will  
2407 recognize Mr. Weimer for five minutes to provide his opening

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2408

statement.

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2409 STATEMENTS OF CARL WEIMER, EXECUTIVE DIRECTOR, THE PIPELINE  
2410 SAFETY TRUST; ANDREW J. BLACK, PRESIDENT AND CEO, ASSOCIATION  
2411 OF OIL PIPELINES (AOPL); CHRISTINA SAMES, VICE PRESIDENT,  
2412 OPERATIONS & ENGINEERING, AMERICAN GAS ASSOCIATION (AGA)

2413

2414 STATEMENT OF MR. WEIMER

2415 Mr. Weimer. Good afternoon. I would like to thank Chairman  
2416 Rush and Ranking Member Upton for inviting me to speak today on  
2417 pipeline safety and for -- I would also like to thank this  
2418 committee for continuing this bipartisan effort to protect people  
2419 and the safety of America, as you always do.

2420 Before we get into various pipeline safety issues, let me  
2421 give you a brief overview of where we stand today regarding the  
2422 safety of pipelines in this country.

2423 While everyone testifying today supports the goal of zero  
2424 incidents, we still have a long way to go to reach that goal.

2425 According to PHMSA data, since the PIPES Act was signed less  
2426 than three years ago, there has been over 1,700 reportable  
2427 pipeline failures.

2428 Over those failures, nearly 800 are considered significant  
2429 incidents under PHMSA's definitions and the number of significant  
2430 incidents had been increasing over the past decade.

2431 For the past 15 years, the emphasis in reducing pipeline

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2432 incidents has been focused on performance-based integrity

2433 management programs in high consequence areas.

2434           Unfortunately, it would appear that these integrity

2435 management programs have not yet lived up to their promise as

2436 significant incident rates within high consequence areas continue

2437 to climb for hazardous liquid and gas transmission pipelines.

2438           The pipeline safety system that Congress has created also

2439 plays a part in PHMSA's inability to get things done. One large

2440 barrier to getting better regulations in place is the cost versus

2441 benefit analysis that Congress has uniquely created for PHMSA.

2442           With a large pipeline system where the probability of a

2443 failure is low but the consequences can be huge, it is nearly

2444 impossible to pass regulations under the current cost benefit

2445 rules.

2446           If you are really interested in longstanding issues such

2447 as effective leak detection, automated shutoff valves, regulation

2448 of over 400,000 miles of totally unregulated gathering lines,

2449 then the cost benefit language in the statute needs to be fixed.

2450           PHMSA's penalty authority also results in civil penalties

2451 that are economically insignificant to many operators and are

2452 much smaller than those imposed by some states.

2453           The wording in the statute for criminal penalties also does

2454 not align with the better wording for PHMSA's hazmat operations

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2455 and creates a very high bar to prove. We have provided suggested  
2456 changes to the statute that can give PHMSA more flexibility and  
2457 penalty assessment in the ability to bring criminal charges on  
2458 companies in the rare cases where that is warranted.

2459 As currently written, the pipeline safety statutes do not  
2460 prohibit the release of gas or hazardous liquid from a pipeline.

2461 Under current PHMSA rules as determined by recent court  
2462 rulings, an operator can cause a significant incident without  
2463 necessarily having violated a safety regulation.

2464 In other words, under PHMSA's rules, an operator has to have  
2465 a plan for operating and testing their pipeline but they don't  
2466 necessarily have to have a plan that works.

2467 To close that loophole, we ask that you add language to make  
2468 clear that the intent of the statute is to avoid releases of gas  
2469 or hazardous liquids.

2470 In the PIPES Act, Congress asks GAO to produce important  
2471 reports on the integrity management program for both natural gas  
2472 and hazardous liquid pipelines after the new PHMSA rules, which  
2473 they have been working on since 2010, are published.

2474 Since those rules have yet to be published and may be delayed  
2475 further, these important reports are not yet due. The current  
2476 integrity management rules have been in place for over a decade,  
2477 are well understood, and NTSB has done a study on its

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2478 effectiveness. So we ask that Congress direct GAO to produce  
2479 these important reports as soon as possible instead of waiting  
2480 for the proposed rules.

2481 Congress should also ignore industry calls for a relaxation  
2482 of class location rules because of integrity management is in  
2483 place until the GAO reports are done and the number of incidents  
2484 under integrity management show a downward trend.

2485 Also in the PIPES Act Congress directed PHMSA to make it  
2486 clear that the Great Lakes, coastal beaches, and marine coastal  
2487 waters are considered unusually sensitive areas.

2488 This mandate has yet to be accomplished. The need to do  
2489 this came as a surprise to us since, clearly, these are unusually  
2490 sensitive.

2491 We were also surprised to learn that PHMSA does not currently  
2492 have a way to define and map all such areas. Congress should  
2493 also ask GAO to do a study of whether PHMSA's definitions and  
2494 identification of such areas along with commercially navigable  
2495 waterways are consistent with other environmental regulations  
2496 and whether PHMSA currently has GIS data layers that allow the  
2497 agency and the industry to know where such boundaries are. Users  
2498 of this data are to ensure that pipeline operators are accurately  
2499 identifying these areas.

2500 Congress should also mandate that such areas be made public

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2501 so state and local governments, along with the public, can ensure  
2502 that PHMSA and pipeline companies are considering these important  
2503 areas.

2504 I see that my time is about up so I want to thank you again  
2505 for asking me to testify today and I stand ready to help answer  
2506 any questions and work on reauthorization.

2507 [The prepared statement of Mr. Weimer follows:]

2508

2509 \*\*\*\*\*INSERT 4\*\*\*\*\*

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2510 Mr. Veasey. Thank you, Mr. Weimer.

2511 Mr. Black, you are now recognized for five minutes.

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2512 STATEMENT OF MR. BLACK

2513

2514 Mr. Black. Thank you, Mr. Chairman, Ranking Member.

2515 I am Andy Black, president and CEO of the Association of  
2516 Oil Pipelines. AOPL represents liquid pipeline owners and  
2517 operators transporting crude oil, refined products like gasoline,  
2518 diesel, jet fuel, and home heating oil, and industrial products  
2519 like propane and methane.

2520 We have over 55 member companies which deliver over 21  
2521 billion barrels annually over a 215,000-mile network of  
2522 pipelines. I am also testifying on behalf of the American  
2523 Petroleum Institute, which represents all facets of the oil and  
2524 natural gas industry including exploration and production,  
2525 refining, marketing, and pipeline and marine transportation.

2526 Pipelines are the safest way to deliver the liquid energy  
2527 we all need and use every day. No other mode of transportation  
2528 is as safe for the American people or the environment as pipelines.

2529 And pipelines are getting safer. Over the last five years,  
2530 pipeline operators have reduced the number of liquid pipeline  
2531 incidents impacting people and the environment by 20 percent.

2532 This is government data publicly available from PHMSA.  
2533 PHMSA data also shows pipeline incidents caused by incorrect  
2534 operation impacting people and the environment are down 38 percent

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2535 over the last five years and pipeline incidents caused by  
2536 corrosion, cracking, or weld failures impact people and the  
2537 environment are down 35 percent over that period.

2538 Member companies of AOPL and API work hard to improve  
2539 pipeline safety. We are transparent about where we are doing  
2540 well and where we can do better.

2541 The statistics I just shared come from the performance report  
2542 we develop jointly each year analyzing pipeline safety data.  
2543 We use this analysis to guide our industry wide pipeline safety  
2544 programs focusing on key safety issues as we strive towards the  
2545 goal of zero incidents.

2546 Through this strategic effort, the pipeline industry has  
2547 addressed key safety recommendations from Congress, PHMSA, the  
2548 NTSB, and issues identified through analysis of safety data.

2549 Recent safety accomplishments include developing new best  
2550 practices for finding and fixing cracking in pipelines, managing  
2551 leak detection programs, responding to pipeline emergencies, and  
2552 applying safety management systems to pipelines.

2553 API also just released an updated best practice for  
2554 inspecting and performing maintenance on pipelines using the  
2555 latest inspection technologies and analytical techniques.

2556 Harnessing technology to advance pipeline safety is a theme  
2557 we are pursuing across industry and we recommend Congress adopt

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2558 as well. For example, high-tech tools can travel inside a  
2559 pipeline scanning it like an MRI or an ultrasound at the doctor's  
2560 office.

2561 Pipeline operators have the opportunity to find issues  
2562 early, perform preventative maintenance, and keep pipelines  
2563 operating safely.

2564 The problem is federal regulations can't keep pace with  
2565 fast-moving technology innovations. Outdated PHMSA regulations  
2566 sometimes conflict with the latest knowledge and techniques.

2567 Congress can do more to allow PHMSA and pipeline operators  
2568 to improve safety by harnessing technology and innovation such  
2569 as creating a pilot program to test pipeline safety technologies  
2570 and approaches. We were thrilled to hear Administrator Elliott  
2571 say "Absolutely" when asked if he was interested in authorizing  
2572 a voluntary information-sharing program encouraging joint  
2573 stakeholder problem solving, requiring regular PHMSA and  
2574 stakeholder review of pipeline safety research and development  
2575 advances, improving the approval process for alternative safety  
2576 technologies, and encouraging voluntary discovery, disclosure,  
2577 correction, and prevention of pipeline safety violations.

2578 Next, protecting public safety and the environment from  
2579 attacks on pipelines is a top reauthorization priority for us.

2580 Pipelines are the safest way to deliver the energy American

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2581 families and consumers use every day at their industrial  
2582 facilities. Recent attacks on pipelines by turning valves or  
2583 attempting to damage the pipeline itself are dangerous.

2584 Members of the public, surrounding communities, and the  
2585 environment are put in danger by attacks on pipeline facilities  
2586 that could easily result in a spill.

2587 Congress should deter future attacks against pipeline  
2588 facility by closing the loopholes in the scope of criminal federal  
2589 liability and in federal pipeline safety law put by previous  
2590 Congresses on a bipartisan basis.

2591 AOPL and API also recommend improving PHMSA programs and  
2592 regulations by easing hiring and retention of PHMSA inspectors,  
2593 which we discussed on the first panel, improving due process in  
2594 enforcement proceedings, tailoring requirements to pipeline  
2595 operating status, adjusting incident reporting requirements for  
2596 inflation, and incorporating the latest best practice on  
2597 inspection repair and tank maintenance.

2598 I look forward to answering any of your questions on these  
2599 proposals, our pipeline safety performance record, or the action  
2600 operators are taking to improve pipeline safety further.

2601 Thank you.

2602 [The prepared statement of Mr. Black follows:]

2603

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2605           Mr. Rush. [Presiding.] And now the chair would like to  
2606 recognize Ms. Sames for five minutes.

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2607 STATEMENT OF MS. SAMES

2608

2609 Ms. Sames. Chairman Rush, Ranking Member Upton, and  
2610 esteemed members of the committee, thank you for the invitation  
2611 to be here.

2612 I am Christina Sames, vice president of operations and  
2613 engineering at the American Gas Association. Prior to AGA, I  
2614 worked for the Pipeline Research Council International, which  
2615 is a research consortium, and also spent 12 years within PHMSA's  
2616 Office of Pipeline Safety where I worked on everything from  
2617 regulations on damage prevention to unusually sensitive areas  
2618 and initiative like, well, community assistance, the pipeline  
2619 mapping program, and moving damage prevention forward.

2620 AGA represents more than 200 local energy companies that  
2621 deliver natural gas to 74 million natural gas customers. Natural  
2622 gas pipelines deliver gas through 2.5 million miles of pipeline  
2623 including 2.2 million miles of local distribution pipe.

2624 The gas utilities distribution pipelines are the last  
2625 critical link to the delivery chain that brings natural gas from  
2626 the well head to the burner tip.

2627 AGA's members live in the communities they serve and interact  
2628 daily with both customers and regulators to oversee pipeline  
2629 safety locally. Our customers are our neighbors, our friends,

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2630 and our family members.

2631 The industry uses a variety of tools to ensure the integrity  
2632 of their distribution systems. This includes prescriptive and  
2633 risk-based regulations along with voluntary actions.

2634 A key risk-based regulation used by operators is  
2635 distribution integrity management, a regulatory process that  
2636 allows an operator to develop a unique safety plan specific to  
2637 that system's operating characteristics and risks to determine  
2638 how best to mitigate those risks and to prioritize the work that  
2639 needs to be done. The process strengthens the systems and  
2640 improves safety. Upgrading distribution pipeline systems is  
2641 important to safety and reliability. We currently have 43 states  
2642 and the District of Columbia that have expedited pipeline  
2643 replacement programs and over the past 20 years the amount of  
2644 cast iron and bare steel in use has declined dramatically,  
2645 replaced by modern pipelines which increase system safety and  
2646 reliability.

2647 The distribution industry has proven it can simultaneously  
2648 increase delivery and improve safety. PHMSA data shows the  
2649 distribution incidents have declined as the mileage and consumers  
2650 have increased.

2651 But while we have come a long way, recent tragic incidents  
2652 demonstrate more needs to be done. The April 10th incident in

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2653 Durham, North Carolina was caused by third-party excavation  
2654 damage, which continues to be the primary cause of distribution  
2655 incidents.

2656 The tragic incident in Merrimack Valley was unprecedented.

2657 Why the NTSB is still investigating, they have stated the cause  
2658 was over pressurization of a low-pressure gas distribution  
2659 system.

2660 Post incident, AGA immediately brought together industry  
2661 experts and published a shared InShare technical paper capturing  
2662 leading practices to prevent over pressurization.

2663 AGA created a board-level task force to escalate our existing  
2664 pipeline safety efforts and determine what more can be done.  
2665 We hosted a crisis leadership and communications summit and  
2666 developed a technical paper that covers the skills required to  
2667 perform engineering work on a natural gas system.

2668 AGA's member safety efforts exceed expectation and  
2669 regulations. The AGA board adopted a commitment to enhancing  
2670 safety that lists specific activities above and beyond  
2671 regulation. We participate in peer reviews, bench marking  
2672 activities, safety summits, and other industry programs to  
2673 enhance safety.

2674 Relative to reauthorization, AGA asks the subcommittee to  
2675 consider three high-level principles. Preserve industry

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2676 engagement and pipeline safety rulemaking by upholding the PHMSA  
2677 regulatory process. Support flexibility in rulemaking by  
2678 recognizing that the gas distribution system differs and avoid  
2679 one-size-fits-all regulations. Don't obstruct pipeline safety  
2680 replacement programs via new mandates that delay pipeline  
2681 replacement or require a replacement faster than work can be  
2682 accomplished safely, reliably, without compromising quality.

2683 Our full statement covers several pipeline safety  
2684 reauthorization topics. We would like to highlight how integral  
2685 PHMSA's gas pipeline advisory committee process is to the pipeline  
2686 safety rule making.

2687 Providing stakeholders supporting vital roles which  
2688 includes input from subject matter experts actually accelerates  
2689 rulemaking and their implementation.

2690 We also support the GPAC cost benefit analysis process.  
2691 To the best of AGA's knowledge, not one single rulemaking has  
2692 been held up by this process.

2693 More importantly, cost benefit analysis protects the public  
2694 as regulatory costs are ultimately borne by the customers.

2695 Thank you for the opportunity to participate. I look  
2696 forward to your questions.

2697 [The prepared statement of Ms. Sames follows:]

2698

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2700 Mr. Rush. As chair, I want to thank all of the witnesses  
2701 for their opening statements. This concludes our opening  
2702 statements and we will move now to member questions and I will  
2703 start by recognizing my friend, Mr. Doyle, for five minutes.

2704 Mr. Doyle. Thank you, Mr. Chairman. I appreciate the  
2705 courtesy.

2706 Pittsburgh has had a record amount of rain over the past  
2707 year that has caused flooding and landslides throughout our  
2708 region. As recently as September of 2018 a landslide in  
2709 neighboring Beaver County caused a pipeline to explode and one  
2710 house was completely destroyed and 30 more homes had to be  
2711 evacuated.

2712 We know that extreme weather will continue because of climate  
2713 change. Mr. Black and Ms. Sames, how does the industry take into  
2714 account extreme weather events and earth movements and how does  
2715 industry plan to adapt as we are seeing more and more of this  
2716 severe weather?

2717 Mr. Black. Pipeline operators face requirements today to  
2718 be aware of that operating environment. Earth movements, any  
2719 change. So there is a current requirement right now for that  
2720 pipeline operator to have understood what stress might be placed  
2721 on a pipeline by land movement.

2722 We have a practice in information sharing among our industry

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2723 and we'll bring pipeline operators together to tell stories about  
2724 incidents or near misses or precautions that were taken based  
2725 on that information.

2726 If the climate continues to change, pipeline operations  
2727 right now continue -- will continue to be faced with those  
2728 requirements and ongoing practices to assess that operating  
2729 environment.

2730 Mr. Doyle. Ms. Sames?

2731 Ms. Sames. Congressman Doyle, I am actually from the  
2732 Pittsburgh area originally. I am very familiar with all the rain  
2733 you have had along with other areas of the country.

2734 So we look at a variety of things. We are looking at new  
2735 flood mapping that is coming out. We are monitoring the weather.

2736 We are putting sensors on our lines to look for ground movement.

2737 We have been doing this for a while in areas where we have  
2738 seismic activity but we are looking at it now for other areas  
2739 because we are seeing changes, and with changes you have to adapt.

2740 So operators are not including this more in their  
2741 distribution integrity management plans.

2742 Mr. Doyle. Mr. Weimer, how about you? What should be done  
2743 to properly address climate adaption and resiliency?

2744 Mr. Weimer. Yes, thanks for the question.

2745 Clearly, the pipeline operators are supposed to be -- have

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2746 control of their pipeline and under integrity management they  
2747 are supposed to look at risks and find out how to mitigate those  
2748 risks. I think as we have seen with changing weather, whether  
2749 it is river scours that caused two releases into the Yellowstone  
2750 River in your area in the Midwest, there has been a number of  
2751 big failures because of ground movement flooding.

2752 In Texas, there has been failures because of wet soil. When  
2753 the NTSB looked at integrity management they thought it was  
2754 working pretty well for things like corrosion but it wasn't  
2755 working very well for some of these other threats that are harder  
2756 to find.

2757 So I think we need to get a better handle and the industry  
2758 is working on some of that. We also need to think about it when  
2759 we are siting pipelines. You know, it doesn't make much sense  
2760 to put a pipeline on the side of a hill that can fail.

2761 So some of the routing of some of those pipelines needs to  
2762 be considered, too.

2763 Mr. Doyle. How about -- you know, Pennsylvania has a history  
2764 of coal mines where we were a coal-producing state and we have  
2765 many abandoned mines throughout our state.

2766 So subsidence is also a concern for energy infrastructure.  
2767 How is subsidence and geological formations taken into account?

2768 Ms. Sames. Well, the one good thing with distribution lines

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2769 is many of them are plastic, which means they have a little bit  
2770 more flexibility to move with the ground. It only goes so far,  
2771 which means that where you have a sudden change, a sudden drop,  
2772 a sudden sink hole, which you do experience in Pennsylvania and  
2773 a few other areas, you're focusing on emergency response -- how  
2774 do you quickly shut off the gas to that area when there is --  
2775 when there is a subsidence that is so fast and so dramatic that  
2776 it causes the pipeline to break.

2777 Mr. Black. Thinking about your question, Congressman, on  
2778 rivers, the industry updated a recommended practice on waterway  
2779 crossings to address the river scour issue. What once was a  
2780 recommended practice just about calm coastal areas has now been  
2781 upgraded to address the river scour issues.

2782 Pipeline operators have to take those responsibilities  
2783 seriously and do.

2784 Mr. Doyle. Okay.

2785 Mr. Chairman, thank you so much. I appreciate the courtesy  
2786 you have shown me and I will yield back.

2787 Mr. Rush. I thank the gentleman for yielding the chair.

2788 The chair now recognizes Mr. Upton for five minutes.

2789 Mr. Upton. Well, thank you again, Mr. Chairman, and I thank  
2790 the panellists for waiting. Aren't you glad we don't have three  
2791 panels, right?

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2792           A couple of questions. Ms. Sames, to follow up on what you  
2793 just said, and I was going to ask about new technologies as we  
2794 look -- you know, as we look at this next bill and there has been  
2795 some questions raised about, you know, sort of like plastic and  
2796 paper, plastic and steel. So, you indicated that plastic is  
2797 emerging volume wise, I guess you could say, in a lot of new  
2798 pipelines.

2799           Can you talk a little bit about the advantage or disadvantage  
2800 and where do you think plastic is as it relates to steel? What  
2801 hurdles might be there and help us?

2802           Ms. Sames. In case it's not obvious, you start talking  
2803 technology with by background I start getting really excited.

2804           So plastic now takes -- accounts for more than 50 percent  
2805 of the distribution pipe. That is increasing because we are  
2806 replacing the cast iron and bare steel.

2807           Mr. Upton. And that is primarily in gas because oil really  
2808 doesn't work, right?

2809           Mr. Black. Still coated steel. Yes, Congressman.

2810           Mr. Upton. I am sorry to interrupt. Go ahead.

2811           Ms. Sames. That's fine. So some of the benefits of  
2812 plastic, and it only goes up to a certain size, which is why you  
2813 see on the liquid lines and the interstate lines really coated  
2814 steel.

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2815           But on plastic -- on distribution we use a lot of plastic  
2816 because it is flexible, it is easier to insert, it is not subject  
2817 to corrosion. So there's a lot of benefits that we see with it.

2818           And the product has come a long way since the initial --  
2819 the initial products back in the '60s and '70s. So we are seeing  
2820 a shelf life of -- lifespan of these plastics -- these newer  
2821 plastics -- they are predicting well over a hundred years. That  
2822 is pretty darn good.

2823           The down side of plastic is --

2824           Mr. Upton. What's the cost difference between --

2825           Ms. Sames. Definitely cheaper.

2826           Mr. Upton. Substantial? Is it substantial?

2827           Ms. Sames. Mm-hmm. Right. Right. So the customers are  
2828 bearing that cost benefit, which is why you see bills so low right  
2829 now between the cost of natural gas and being able to use plastic.

2830           It is a lot cheaper.

2831           The one down side with plastic is an issue that we continue  
2832 that struggle with, which is third-party damage. The Durham  
2833 incident, third-party damage again.

2834           So if you all could find a way to stop the telecoms, the  
2835 water, and sewer lines from hitting us, I would greatly appreciate  
2836 it.

2837           Mr. Upton. Mr. Black, do you want to comment on it at all

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2838 or not?

2839 Mr. Black. We are excited about the technology advances.  
2840 They're not in plastics and the liquids but they are about inline  
2841 inspection technologies, leak detection technologies. We have  
2842 encouraged Congress to direct PHMSA to implement a pilot program  
2843 allowing for real-world testing of technology and applications.  
2844 We think that will give them more information that they need  
2845 so that they can update regulations to advance technology.

2846 Mr. Upton. In the last Congress, both Mr. Black's and Ms.  
2847 Sames' organizations submitted letters of support for our action  
2848 to strengthen DOE's cybersecurity program for pipelines. We  
2849 appreciated that.

2850 This bill has now been introduced -- reintroduced as H.R.  
2851 370, Pipeline and LNG Facilities Cybersecurity Preparedness Act.  
2852 Can you continue to support that? I don't know if you have taken  
2853 another look at it. It really hasn't changed. But we would --  
2854 let me just say we would welcome your written support for this  
2855 a second time.

2856 Ms. Sames. We do support that bill. It gives DOE a great  
2857 coordination role, which I think is very much needed. So yes,  
2858 you continue to have our support.

2859 Mr. Black. We are glad to support that bill to help it get  
2860 through the committee process. Cybersecurity is important. We

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2861 encourage all of Congress to work on this -- a holistic approach  
2862 with energy, transportation, and intelligence-related  
2863 committees.

2864 An important goal is not having duplication and conflicting  
2865 sets of guidance that could set operators back.

2866 Mr. Upton. Great. Thank you. I yield back.

2867 Mr. Rush. Thank you for yielding. The chair recognizes  
2868 himself for five minutes.

2869 Mr. Weimer, so good to see you again before the subcommittee.

2870 You have provided your expertise to the members of this  
2871 subcommittee on pipeline safety, reauthorization efforts, and  
2872 we certainly appreciate you being here once again with us.

2873 In your testimony, you stated that since the year 2010,  
2874 despite all the high-profile pipelines incidents, congressional  
2875 interest, NTSB and GAO recommendations, PHMSA is incapable of  
2876 producing new safety rules mostly due to the unique and overly  
2877 burdensome cost benefit requirements that the agency must adhere  
2878 to.

2879 Why do you call the cost benefit requirement for PHMSA unique  
2880 and how does it contribute to an agency's inability to implement  
2881 significant new rulemaking even when they are directed to do so  
2882 by law?

2883 Mr. Weimer. Thank you for the question, Chairman Rush.

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2884 Yes, I am on the gas advisory committee for PHMSA and we have  
2885 another board member who is a law professor at the University  
2886 of Arkansas who is on the gas advisory committee. I am on the  
2887 liquid advisory committee.

2888 Both of these committees often focus on the cost benefit.  
2889 It was put into the statute in the mid-90s and PHMSA, just because  
2890 of timing efforts, was one of the few places where the cost benefit  
2891 requirements landed.

2892 We don't have a problem with cost benefit. We think it makes  
2893 sense to consider the costs versus the benefits and that is already  
2894 required under executive orders.

2895 We are not talking about that. We are talking about the  
2896 uniqueness in the statute where the industry can, because of the  
2897 Administrative Procedures Act, can legally challenge that and  
2898 the cost benefit is -- the only place we know of it is in the  
2899 PHMSA statute.

2900 Other places like EPA and some other agencies have mention  
2901 of cost benefit. But it is not -- they don't have to justify  
2902 the cost the way PHMSA does.

2903 Even a former administrator, just two administrators back  
2904 has recently said that one of her frustrations as administrator  
2905 was trying to get rules passed because of the cost benefit statute,  
2906 and you see it slowing things down because PHMSA doesn't always

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2907 have enough data to justify the cost because they have to get  
2908 that data from the industry.

2909 So the industry comes forward with any rulemaking and says  
2910 things are going to cost billions and billions of dollars and  
2911 PHMSA really can't argue with that. Good information to know.

2912

2913 The committee should certainly take that into consideration.  
2914 But it shouldn't be the only way you can get a rule passed.

2915 Mr. Rush. What kind of corrective strategies would you  
2916 recommend that the Congress take?

2917 Mr. Weimer. Well, I think in our testimony we provided some  
2918 red line version of what cost benefit language got put into the  
2919 statute in the '90s and we recommended that that be removed to  
2920 make it more of an even playing field with just about every other  
2921 statute we see.

2922 Mr. Rush. You feel very strongly about the need for enacting  
2923 minimum standards for the 435,000 miles of natural gas gathering  
2924 lines traversing our nation.

2925 What are the dangers, in your opinion, of leaving those lines  
2926 unregulated?

2927 Mr. Weimer. Thank you for that question. Yes, it is pretty  
2928 amazing. As the shale plays have turned out in this country,  
2929 especially in places like Pennsylvania, you know, rapidly there

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2930 was hundreds of thousands of miles of new gathering lines put  
2931 in.

2932 A lot of those shale plays have pressures coming out of the  
2933 ground at much higher pressures. So the pipelines going in are  
2934 larger and much higher pressure. They are basically the same  
2935 as gas transmission pipelines that are already fairly well  
2936 regulated.

2937 These pipelines run right past homes. Even in rural areas  
2938 they run past clusters of homes. Were it failed, it would be  
2939 the same as a failure of a gas transmission pipeline and in most  
2940 places they are completely and totally unregulated.

2941 So, you know, to prevent failure so people don't show up  
2942 in front of this committee again with the latest failure minimum  
2943 standards for these gathering lines need to be enacted.

2944 Mr. Rush. My time is up. I certainly want to thank you  
2945 very much.

2946 The chair now recognizes Mr. Latta from Ohio for five  
2947 minutes.

2948 Mr. Latta. Thank you, Mr. Chairman, and thanks to our panel  
2949 of witnesses today for appearing.

2950 Mr. Black, if I could start with you. You said something  
2951 kind of interesting that we talk about in this committee a lot.

2952 Energy and Commerce is a great committee. We have very broad

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2953 jurisdiction. We think it is the best committee in Congress --  
2954 not only think, we believe it.

2955 But you said something that we really believe, because what  
2956 we see in this committee are technologies and inventions that  
2957 are really five to 10 years out and so one of the things we have  
2958 to be careful when we are, you know, working on legislation is  
2959 to make sure that we are not hindering the progress out there  
2960 in the community.

2961 And you have mentioned that -- on, you know, making sure  
2962 that the federal regulations, you know, keep pace in what you're  
2963 all doing out there. But what I would like to do is -- my first  
2964 question I would like you to go, if you would further expand on  
2965 your testimony and comments regarding a pilot program to test  
2966 cutting-edge safety technologies.

2967 And would you tell us about what those new technologies are  
2968 and are available out there and how they might offer the  
2969 opportunity for further improvement for pipeline safety?

2970 Mr. Black. I will give you one example. Pipeline integrity  
2971 management regulations are almost 20 years old. That is before  
2972 the iPhone. We had smart pigs then but they weren't nearly as  
2973 smart as they are now. Right now, there is improved technologies  
2974 of travel inside the pipeline collecting data.

2975 At the same time that we now have terabytes of data on

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2976 pipeline features whereas we didn't before, we also have better  
2977 analytical techniques to know what that increased information  
2978 tells us. Yet, the PHMSA regulations are almost 20 years old  
2979 and are not up to date.

2980 So the latest know-how and techniques on prioritizing risks  
2981 in pipelines is not what PHMSA is requiring operators to do.  
2982 Repair criteria updates are not in what we understand would be  
2983 the next hazards liquids rule that is moved.

2984 We can see PHMSA needing real-world experiences from a  
2985 controlled environment by selecting pipeline operators to test  
2986 any new technologies. It could be leak detection technologies.  
2987 It could be scheduling repairs and maintenance under new  
2988 analytical techniques.

2989 If they can gather information like that, they can have more  
2990 confidence to update regulations in the manner that they should  
2991 with equivalent or better level of safety, maybe they won't be  
2992 so slow.

2993 Mr. Latta. Well, I assume you have discussions with PHMSA  
2994 on a frequent basis. When you bring this up to them, what do  
2995 they say about upgrading those regulations that bring this new  
2996 technology out?

2997 Mr. Black. Well, they know that it's important to us that  
2998 integrity management regulations be updated. You have heard

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2999 Administrator Elliott say that he is open to pilots.

3000 We hope this would be an issue that they would work on.  
3001 They also have the special permit process which has been  
3002 cumbersome and slow and only allows one operator to get a waiver  
3003 for an equivalent level of safety or better.

3004 It may be ill-suited to pipeline integrity management  
3005 regulations. But it is something that we need to consider with  
3006 them.

3007 The industry just released API-recommended practice 1160.  
3008 That is all about performing maintenance and repairs on pipelines  
3009 and as the administrator said they have a goal -- we all have  
3010 a goal in avoiding spending resources on issues that aren't high  
3011 priority and making sure that we are on high priority.

3012 Whatever it takes, whether it is congressional action or  
3013 a pilot program or a repair permit or a rulemaking we need to  
3014 update those regulations.

3015 Mr. Latta. Thank you.

3016 Just continuing on this topic, we know that the technology  
3017 is ever changing and adapting. But, again, what do you -- how  
3018 do we get to that point of working with the agency to make sure  
3019 we get those technologies out there?

3020 Mr. Black. Well, we found the model in the motor carrier  
3021 statute at the Department of Transportation. They have the

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3022 authority to do this pilot program, and if Congress directs them  
3023 to do that and creates that authority, hopefully, that is  
3024 something that they will create.

3025 We also have rich exchanges on research and development  
3026 advances. They are funding research and development. We are  
3027 funding research and development.

3028 The collaboration between the two is episodic and not as  
3029 good as it should be. One of our proposals is that Congress direct  
3030 PHMSA to review its research and development programs and have  
3031 us do it within the entities that Mr. Weimer was describing --  
3032 the liquid and gas pipeline advisory committees.

3033 If you put that in the statute that that is something that  
3034 PHMSA should be doing, we believe that will maybe force more  
3035 regular and frequent and fast discussions of R&D advances because  
3036 we share the same goal -- zero incidents, improving pipeline  
3037 safety and technology.

3038 Mr. Latta. Thank you.

3039 Mr. Chairman, my time has expired and I yield back.

3040 Mr. Rush. I want to thank the gentleman for yielding back.

3041 Mr. Walberg is -- no, I am sorry. Mr. Olson is recognized  
3042 for five minutes.

3043 Mr. Olson. I thank the chair, and welcome to the second  
3044 panel.

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3045 I want to start by thanking each of your organizations for  
3046 your performance -- of pipeline performances during Hurricane  
3047 Harvey.

3048 Hurricane Harvey hit southeast Texas in late August of 2017.  
3049 Parts of my home received five feet of rain over two days. The  
3050 largest petrochemical complex in the world is along the Houston  
3051 Ship Channel, which is 52 miles long.

3052 It is America's largest exporting port for the last 10 years.

3053 All that product comes from Eagle Ford, Permian Basin, somewhere  
3054 else. It got there without a major spill -- major incident.

3055 So thank you, thank you, thank you. Hurricane Harvey shows  
3056 how safe you guys are.

3057 Our first question is for you, Mr. Black and Ms. Sames.  
3058 As they mentioned on the first panel, Texas 22 is booming. One  
3059 example -- our population, we think, will be over one million  
3060 in the next Census. It has grown almost 30 percent in the last  
3061 10 years.

3062 As the population keeps increasing, people are moving to  
3063 areas that were rural before. There were pipelines there, and  
3064 so with all that traffic flowing to the Port of Houston, the port  
3065 of Freeport, coming from the west Permian Basin flows through  
3066 Fort Bend County. Can't get there without Fort Bend County.

3067 So can you all please talk about how the industry works with

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3068 new communities as they are built around existing pipelines?  
3069 How to make sure that first responders and others know what the  
3070 risks are?

3071 Mr. Black.

3072 Mr. Black. Well, you are certainly right, Congressman, that  
3073 not only is the population of that area in your district growing  
3074 but the benefits within Texas of increased oil and gas production  
3075 are helping Houstonians and others have benefit from lower prices,  
3076 more availability to U.S. and North American supplies.

3077 It is important for us to expand pipeline capacity to help  
3078 feed those needs and to make sure that the public along the  
3079 existing route is aware of pipelines that are there.

3080 We are ready to work with anybody that is constructing a  
3081 pipeline to make sure that they are safely not threatening the  
3082 pipeline. The "call before you dig" program and public awareness  
3083 programs are very important.

3084 Mr. Olson. Ms. Sames, your comments, ma'am?

3085 Ms. Sames. Well, in addition to what Andy said, there is  
3086 also the Pipeline Informed Planning Alliance document that helps  
3087 to -- helps communities as they are building around existing  
3088 pipelines. There is a lot of great practices in there.

3089 It was a collaborative effort that included, you know, the  
3090 Pipeline Safety Trust, the oil industry, the gas industry,

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3091 emergency responders, governors, cities. I lost count of how  
3092 many. It is a good document and it really provides guidance  
3093 around how communities can build safely around these existing  
3094 pipelines -- these larger existing pipelines.

3095 Simple things like if you're building a school near an  
3096 existing pipeline put the parking lot near the pipeline, not the  
3097 school, but also make sure that there is a good exit so that when  
3098 people -- if something happens in that small stretch that they  
3099 have an escape route. It is things like that that are within  
3100 the document. Hopefully, they will consider it.

3101 Mr. Olson. I thank you, too, because pipelines provide  
3102 green space all over Fort Bend County and Brazoria County. A  
3103 park right by my house, the biggest park my hometown of Sugar  
3104 Land has, is built over an existing pipeline. The markers are  
3105 all along the park. But it's a park and people are there.  
3106 They're flying kites. They've got this little dirt bike trail.  
3107 That is because a pipeline is there. That land is available.  
3108 It would have been taken up but that pipeline gave us green space.  
3109 So thank you for that.

3110 I want to get back to the staffing issues I talked about  
3111 with PHMSA in the first panel. You know, they can't function  
3112 without the right agents, the right people in place, and  
3113 sometimes, I mentioned, they get poached because their people

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3114 are so good.

3115 Mr. Doyle left, but he and I have a bill to give FERC a sort  
3116 of waiver to keep employees, pay them higher than average federal  
3117 salary. That has happened for the SCC. Would you support that  
3118 going through PHMSA, having that have more financial resources  
3119 to keep the people they've got?

3120 Mr. Black. I will tell you about the proposal that we have  
3121 made to the Congress on this and the committee. We understand  
3122 that if PHMSA had Schedule A hiring authority for its inspectors,  
3123 they would be able to better attract and retain pipeline  
3124 operators.

3125 From what we have learned about the federal personnel  
3126 process, that would help. It is in all of our interests for PHMSA  
3127 to be able to have quality inspectors on the job. I haven't  
3128 studied your bill. I am happy to do that. But the spirit of  
3129 being able to have PHMSA maintain quality inspectors is one we  
3130 support.

3131 Mr. Olson. Thank you. One final comment, and this is a  
3132 question for you, Mr. Black. Are the Horned Frogs going to beat  
3133 the Sooners this year in football?

3134 Mr. Black. Well, as a TCU grad, they should every year.  
3135 Yes, sir.

3136 [Laughter.]

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3137 Mr. Olson. Okay.

3138 Mr. Rush. The gentleman from Michigan, Mr. Walberg, for  
3139 five minutes.

3140 Mr. Walberg. Thank you, Mr. Chairman. Thanks to the panel.

3141 Mr. Black and Ms. Sames, I think you share some of the  
3142 frustrations regarding PHMSA's inability to comply with  
3143 congressional mandates relating to pipeline safety rulemakings.

3144 In your view, what is keeping PHMSA from complying with  
3145 deadlines on their significant rulemakings?

3146 Mr. Black?

3147 Mr. Black. Congressman, we believe there was a strategic  
3148 mistake by the last administration to lump many large complex  
3149 issues into a few mega rulemakings. The rulemaking process is  
3150 not build for that.

3151 We believe that they should have separated them out. The  
3152 administrator has acknowledged that and that is what they are  
3153 doing. We don't believe cost benefit requirements are what  
3154 delayed those rules.

3155 Now, certainly, if a proposal is overly broad it deserves  
3156 to be reviewed further. We think the American people, who  
3157 ultimately pay the cost of regulations, deserve to know that the  
3158 benefits outweigh the costs and we think cost benefit analysis  
3159 improves regulations.

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3160           Lastly, some of the proposals that we have seen to remove  
3161 cost benefit from the PHMSA statute risks, number one, later --  
3162 longer delays because the Office of Management and Budget might  
3163 return something to PHMSA that hasn't had cost benefit analysis.

3164

3165           And, two, I would hate to end the requirement that a risk  
3166 benefit analysis and a cost benefit go before the public advisory  
3167 committee that Carl and our industry reps are on. Those are great  
3168 discussions to improve regulations.

3169           We think, to answer your question, it has been mistakes of  
3170 just lumping too many things in mega rules. That is why they  
3171 were delayed. They are recovering now.

3172           Mr. Walberg. Ms. Sames, any additions there?

3173           Ms. Sames. I fully agree with Mr. Black. But in addition,  
3174 just an observation. It is my opinion, my observation, that  
3175 PHMSA's staff -- technical staff -- are pretty darn good at moving  
3176 things forward after the advisory committee meets.

3177           It appears that something is occurring after it leaves their  
3178 technical office to that rulemaking. I don't know exactly what  
3179 it is but --

3180           Mr. Walberg. Does OMB add to the delays?

3181           Ms. Sames. I am sure that there is some with OMB. But it  
3182 appears that there may be things beyond PHMSA within the

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3183 department that may also be holding things back a little bit.

3184 I don't know where the obstacle is.

3185 But I can tell you that the industry is very frustrated.

3186 We like certainty. How often do you have the industry sending  
3187 in letters to the secretary asking for them to move a rulemaking  
3188 forward? And we have been doing that.

3189 Mr. Walberg. Thank you.

3190 Ms. Sames, in your written testimony you highlight that every  
3191 natural gas distribution system is different in terms of design,  
3192 use, age, location, external risks, operating history, current  
3193 operating conditions, et cetera, et cetera.

3194 Could you please talk about how, as a result of these  
3195 differences, prescriptive regulations that take basically a  
3196 one-size-fits-all approach might not be the best idea?

3197 Ms. Sames. Thank you for the question.

3198 Distribution lines are really different from the interstates  
3199 and the liquid. You have -- for example, on distribution you  
3200 have plastic. You have steel. You have coated steel. You have  
3201 bare steel. You have all of these different materials that were  
3202 put in over the ages.

3203 You also have different pressures and different sizes. It's  
3204 just very unique compared to everything else.

3205 So when you get a prescriptive regulation it doesn't take

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3206 any of that into account and I will give you an example.

3207 Atmospheric corrosion surveys are done every three years. Now,  
3208 if you are in a desert environment you may not need an atmospheric  
3209 corrosion survey every three years.

3210 However, if you are along the ocean you probably need it  
3211 more frequently, which is why it is important to have not only  
3212 those prescriptive regulations but also the risk-based  
3213 regulations that we get through integrity management. That kind  
3214 of balances things out of it.

3215 Mr. Walberg. Okay. On the first panel I asked about the  
3216 role of states like Michigan, which have robust inspection  
3217 programs themselves, play in pipeline safety -- specifically,  
3218 their coordination with PHMSA.

3219 Has this model helped your Michigan utilities meet higher  
3220 safety standards at low regulatory burden as they invest in  
3221 transitioning away from the old cast iron or steel distribution  
3222 pipes?

3223 Ms. Sames. I think it has because the local inspectors know  
3224 the environment. They know the operators. They're spending a  
3225 lot of time with the distribution operators and that allows them  
3226 to collectively move safety forward in a way that is the lowest  
3227 cost to the customers.

3228 The members that I have they are all publicly traded

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3229 utilities for the most part, which means that their rates are  
3230 going through the commissions and it really is a partnership --  
3231 how do you improve safety, how do you do things the right way  
3232 at the lowest cost to the customer and the least burden.

3233 Mr. Walberg. And they should have a better grasp on the  
3234 situations?

3235 Ms. Sames. Correct, because they are there. They live and  
3236 work in the same communities that we are serving.

3237 Mr. Walberg. Thank you. I yield back.

3238 Ms. Sames. You are welcome.

3239 Mr. Rush. The chair now recognizes the gentleman from  
3240 Virginia, Mr. Griffith, for five minutes.

3241 Mr. Griffith. Thank you very much. I appreciate it, Mr.  
3242 Chairman.

3243 Mr. Black, earlier you indicated that, you know, there were  
3244 concerns about a tax on pipelines and I share that, and I  
3245 understand you also have indicated in speaking with Mr. Latta  
3246 that, you know, one of the things we can do is to have voluntary  
3247 compliance and so forth.

3248 But one of my concerns is, as you heard me on the previous  
3249 panel, is we got pipelines going in the ground, you know, as we  
3250 speak or in the process. They are not in the grounds yet. Once  
3251 we get them in the ground we are not going to put new technology

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3252 -- you know, we are not going to say "Dig it up" five years from  
3253 now and put in the new technology.

3254 And so the concern is why aren't the companies putting those  
3255 pipelines in the ground now, putting in the technology? And,  
3256 again, there may be others.

3257 But, you know, I had a demonstration of what could be used  
3258 with the fiber optics and, of course, you'd have to have some  
3259 broadband in the area so we'd have to work on that.

3260 But the fiber optics that will tell you if somebody is --  
3261 if there is a leak that just occurs naturally or if somebody is  
3262 making an attack on a pipeline that's underground they can see  
3263 it, you know, live action and get out there and do something about  
3264 it before the harm you indicated, which I agree with you, could  
3265 be harm to the community.

3266 You know, it's not just about stopping the pipeline. There  
3267 could be an environmental risk. There's a risk of explosion or  
3268 fire or whatever. So if the industry is not already doing it,  
3269 it seems to me that would be smart.

3270 In fact, as a recovering attorney, let me posit that because  
3271 that technology is out there the gas companies might very well  
3272 be at risk of having not used the best equipment and may have  
3273 some liability damages in the future.

3274 So why aren't they doing it? And that makes me worry that

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3275 voluntary doesn't work and that we may need to have, you know,  
3276 regulatory that says, you know, if there's something out there  
3277 that increases public safety we ought to do it.

3278 What say you?

3279 Mr. Black. We are excited about leak detection technology  
3280 development. I know operators are talking with vendors about  
3281 technologies to see, sniff, and hear signs of small leaks, which  
3282 are the hardest ones to detect.

3283 That can include acoustic smart balls, fiber optic cables.

3284 I have heard of copper cables with conductors. PHMSA conducted  
3285 a study on leak detection technologies as a result of a mandate  
3286 from Congress.

3287 We heard what you alluded to on the first panel. Sometimes  
3288 the claims of performance -- we are not sure yet about how they  
3289 will do road tested. So operators have having those  
3290 conversations right now and hoping to be able to have confidence  
3291 in those technologies.

3292 I am aware of several pilot programs, not in a DOT pilot  
3293 but in a company sense, where they're testing some of those new  
3294 technologies. We think the pilot program will help an operator  
3295 work with PHMSA and try and implement, hey, this is how we want  
3296 to do for leak detection -- are you okay on that.

3297 Mr. Griffith. So here's -- but here is the problem with

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3298 my constituents, and there is two coming through Virginia. One  
3299 comes directly through my district. Another one is a little bit  
3300 further north.

3301 Okay, great. You do a pilot project. Wouldn't it make more  
3302 sense to go ahead and put that in the ground now? Because they're  
3303 not -- once the pilot project comes back and says yes, it works,  
3304 they're not going to dig up the corridor over hundreds of miles  
3305 and suddenly put down that technology that works.

3306 So aren't we -- if we had something that already could do  
3307 that and you said, well, the new stuff doesn't work any better  
3308 than the old stuff, I would say, okay, let's wait and see or --  
3309 but we don't have anything that will give us that detection and  
3310 at least with the one technology, and again, I admit there are  
3311 others that are probably out there, it changes the temperature  
3312 of the gourd.

3313 They can tell immediately if there's a leak out there and  
3314 it would seem to me that the companies would want to do this and  
3315 put it down in advance and then if you needed the software upgrades  
3316 down the road you might be able to do that a whole lot easier  
3317 than -- I mean, the ditches are dug right now and they are laying  
3318 the pipe. Why aren't they doing it, and that is what calls into  
3319 question for me voluntary versus us having some regulations.

3320 Now, if it's going to take us 20 years to get the regulations

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3321 that isn't going to work either. I am not sure there is an answer  
3322 to that, Mr. Black. Let me go to Ms. Sames for something different  
3323 because you have referenced it, I think. But the finalizing of  
3324 the rulemaking on the automatic shut off valves and remote  
3325 controlled shut off valves which, to me, makes a lot of sense  
3326 and I think that's the one you're asking them to hurry up and  
3327 get it done.

3328 But can you explain for the public the difference between  
3329 the transmission and distribution systems and what considerations  
3330 need to be made on these auto shut offs for each of those?

3331 Ms. Sames. Sure. So automatic and remotely controlled  
3332 valves we are putting them on our intrastate transmission. I  
3333 can't speak to the interstates. But we are putting them on our  
3334 intrastates where we have what I will call consistent pressure.

3335 The problem with automatic shut off valves is they sense  
3336 a pressure drop, which means that if you have pressure  
3337 fluctuations in the line, it is going to shut off and now you  
3338 are shutting off customers, which is why they tend not to work  
3339 as you get further downstream.

3340 You have too many pressure fluctuations because people are  
3341 turning on their stoves. They are turning on their furnaces.

3342 They are using more natural gas, which is sucking the gas from  
3343 the system which is dropping the pressure.

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3344           We are very supportive of them in many instances where you  
3345 don't have those pressure fluctuations.

3346           Mr. Griffith. Well, how about the -- and I know you said  
3347 it was -- you were doing intra but how about that 42-inch pipe  
3348 coming through my district? Wouldn't that work better there?

3349           Ms. Sames. I cannot speak to that one, sir.

3350           Mr. Griffith. Yes, ma'am. I appreciate it.

3351           I yield back, Mr. Chairman. Thank you.

3352           Mr. Rush. I thank the gentleman, and I want to thank all  
3353 the witnesses for your patience and for your participation in  
3354 today's hearing and I want to also remind members that pursuant  
3355 to committee rules you have 10 business days to submit additional  
3356 questions for the record, which will be answered by the witnesses  
3357 who have appeared before the subcommittee, and I ask each witness  
3358 to respond promptly to any such questions that you may receive.

3359           And this -- we have a unanimous consent request to enter  
3360 into the -- the following into the record the following  
3361 information: a letter from the American Public Gas Association,  
3362 a letter from the Interstate Natural Gas Association of America,  
3363 a letter from the National Association of Regulatory Utility  
3364 Commissioners, a letter from the Alliance for Innovation and  
3365 Infrastructure.

3366           Without objection, so ordered.

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3367 [The information follows:]

3368

3369 \*\*\*\*\*COMMITTEE INSERT 7\*\*\*\*\*

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3370 Mr. Rush. And the chair now adjourns this committee.

3371 At this time, the committee stands adjourned. Thank you.

3372 [Whereupon, at 1:24 p.m., the committee was adjourned.]